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SONAR ENUMERATION OF PACIFIC SALMON
INTO NUSHAGAK RIVER, 1995



By

James D. Miller

Regional Information Report¹ No. 2A96-08

Alaska Department of Fish and Game
Division of Commercial Fisheries Management and Development
Central Region
333 Raspberry Road
Anchorage, Alaska 99518

February 1996

¹The Regional Information Report Series was established in 1987 to provide an information access system for all unpublished Divisional reports. These reports frequently serve diverse ad hoc informational purposes or archive basic uninterpreted data. To accommodate needs for up-to-date information, reports in this series may contain preliminary data; this information may be subsequently finalized and published in the formal literature. Consequently, these reports should not be cited with approval of the author or the Division of Commercial Fisheries Management and Development.

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TABLE OF CONTENTS

LIST OF TABLES	v
LIST OF FIGURES.....	vii
LIST OF APPENDICES	ix
ABSTRACT	x
INTRODUCTION.....	1
METHODS.....	1
Hydroacoustic Counting	2
Count Adjustment.....	3
Escapement Sampling for Species Composition.....	3
Species Composition Estimation	4
Salmon Escapement Estimation	7
Spatial Differences in Species Composition	8
Coho Salmon Far Offshore Sampling	8
Mesh Size Selection	8
Age, Sex, and Size Sampling.....	9
Migratory Timing.....	9
Climatological Data	10
RESULTS.....	10
Hydroacoustic Counting	10
Count Adjustment.....	11

TABLE OF CONTENTS (Continued)

RESULTS (Continued)

Hydroacoustic Counting (Continued)

Gear Placement.....	11
Spatial Distribution of Sonar Counts	11
June 8 - July 24.....	12
July 25 - August 25	12
Temporal Distribution of Sonar Counts.....	13
June 8 - July 24.....	13
July 25 - August 25	13
Escapement Sampling Catch and Effort.....	13
Range Differences in Species Composition	14
Estimates of Escapement	14
Sockeye Salmon	14
Chinook Salmon	15
Chum Salmon	15
Pink Salmon.....	16
Coho Salmon	16
Far Offshore Sampling.....	16
LITERATURE CITED	18
TABLES	22
FIGURES.....	49
APPENDIX.....	63

LIST OF TABLES

<u>Table</u>	<u>Page</u>
1. Escapement sampling catch proportions by counting range, date, and species, Nushagak River sonar project, June 15-18, 1995.....	22
2. Right bank inshore sonar counts, original offshore sonar counts, and adjusted offshore sonar counts, Nushagak River sonar project, June 15-18, 1995	23
3. Inshore and offshore sonar counts by bank and day, Nushagak River sonar project, 1995	24
4. Counting ranges for sonar counters on right and left banks, Nushagak River sonar project, 1995	27
5. Chi-square test results comparing gillnet catches among inshore and offshore strata by period and river bank, Nushagak River sonar project, June 10 - August 19, 1995	28
6. Final daily and cumulative escapement estimates by species, Nushagak River sonar project, 1995	29
7. Sockeye salmon escapement estimates and average escapement proportions by date, Nushagak River, 1980 - 1995	32
8. Age, sex, and size composition of sockeye salmon escapement, Nushagak River sonar project, 1995	34
9. Chinook salmon escapement estimates and average escapement proportions by date, Nushagak River, 1980 - 1995	36
10. Age, sex, and size composition of chinook salmon escapement, Nushagak River sonar project, 1995	38
11. Sex composition of age-1.2 chinook salmon escapement, Nushagak River sonar project, 1988-1995	39
12. Chum salmon escapement estimates and average escapement proportions by date, Nushagak River, 1980 - 1995.....	40
13. Age, sex, and size composition of chum salmon escapement, Nushagak River sonar project, 1995	42

LIST OF TABLES (Continued)

<u>Table</u>	<u>Page</u>
14. Pink salmon escapement estimates and average escapement proportions by date, Nushagak River, 1980 - 1994	43
15. Coho salmon escapement estimates and average escapement proportions by date, Nushagak River, 1982 - 1995.....	45
16. Age, sex, and size composition of coho salmon escapement, Nushagak River sonar project, 1995	47
17. CPUE of coho salmon caught using drift gillnets in the right and left bank inshore, offshore, and far offshore strata, Nushagak River sonar project, August 6-19, 1995	48

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1. Bristol Bay area showing the location of the Nushagak River sonar site.....	49
2. Detailed right bank sonar placement, relationship to left bank sonar, and bottom profile of Nushagak River at right bank sonar site, 1995	50
3. Detailed left bank sonar placement, relationship to right bank sonar, and bottom profile of Nushagak River at left bank sonar site, 1995	51
4. Regression model of the relationship of right bank inshore to offshore sonar counts (inshore counts <5,500), Nushagak River sonar project, June 20 - July 15, 1995	52
5. Number of sonar counts by sector for the right bank inshore and offshore counters, Nushagak River sonar project, June 8 - July 24, 1995	53
6. Number of sonar counts by sector for the left bank inshore and offshore counters, Nushagak River sonar project, June 8 - July 24, 1995	54
7. Number of sonar counts by sector for the right bank inshore and offshore counters, Nushagak River sonar project, July 25 - August 25, 1995	55
8. Number of sonar counts by sector for the left bank inshore and offshore counters, Nushagak River sonar project, July 25 - August 25, 1994.....	56
9. Proportion of sonar counts by hour for the right and left banks inshore and offshore counters, Nushagak River sonar project, June 8 - July 24, 1995.....	57
10. Proportion of sonar counts by hour for the right and left banks inshore and offshore counters, Nushagak River sonar project, June 8 - July 24, 1995.....	58
11. Average escapement timing of sockeye salmon into Nushagak River, June 4 through August 10, 1980 - 1995	59
12. Average escapement timing of chinook salmon into Nushagak River, June 5 through August 10, 1983 - 1995	60
13. Average escapement timing of chum salmon into Nushagak River, June 4 through August 10, 1980 - 1995	61

LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
14. Average escapement timing of coho salmon into Nushagak River, July 1 through August 25, 1984 - 1985 and 1988 - 1995.....	62

LIST OF APPENDICES

Page

APPENDIX A: REPORT PERIODS

- A.1. Report periods for pooling escapement sampling data for the estimation of species composition, Nushagak River sonar project, 199564

APPENDIX B: CLIMATOLOGICAL DATA

- B.1. Climatological observations, Nushagak River sonar project, 199565

APPENDIX C: SONAR COUNTS BY DAY AND SECTOR

- C.1. Sonar counts by date and sector, right bank inshore strata, Nushagak River sonar project, 199567
- C.2. Sonar counts by date and sector, right bank offshore strata, Nushagak River sonar project, 199570
- C.3. Sonar counts by date and sector, left bank inshore strata, Nushagak River sonar project, 199572
- C.4. Sonar counts by date and sector, left bank offshore strata, Nushagak River sonar project, 199575

APPENDIX D: TEST FISH DATA

- D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species, Nushagak River sonar project, 199577
- D.2. Beach seine catch by date and range, Nushagak River sonar project, 1995140

ABSTRACT

Estimates of Pacific salmon *Oncorhynchus* escapement for the Nushagak River in Bristol Bay, Alaska, were determined by hydroacoustic techniques from June 8 through August 25, 1995. Estimates of species, age, sex, and size composition were derived from escapement catch samples obtained with drift gillnets and beach seines. Final escapement estimates by species through August 25 were 281,307 sockeye salmon *O. nerka*, 85,622 chinook salmon *O. tshawytscha*, 212,612 chum salmon *O. keta*, 76 pink salmon *O. gorbuscha*, and 46,340 coho salmon *O. kisutch*.

KEY WORDS: Pacific salmon, sonar, Nushagak River, Bristol Bay, escapement, estimation, fisheries management, *Oncorhynchus*

INTRODUCTION

The Nushagak River is located in southwestern Alaska (Figure 1) and flows approximately 390 km from its headwaters into Nushagak Bay in Bristol Bay, Alaska. Two main tributaries -- Nuyakuk River and Mulchatna River -- converge to form the Nushagak River. These rivers support large populations of five species of Pacific salmon *Oncorhynchus* which are harvested in commercial, sport, and subsistence fisheries. Accurate salmon escapement estimates into this system are essential to fishery management.

In 1979, the Alaska Department of Fish and Game (ADF&G) began to examine the feasibility of using hydroacoustic (sonar) equipment and procedures to count adult salmon in Nushagak River (McBride 1981). During subsequent years, the Nushagak River sonar project has provided information important to the management of commercial salmon fishing in Nushagak District.

Estimating numbers of salmon migrating into Nushagak River with sonar involves (1) estimating the number of hydroacoustic targets passing through sonar beam(s), (2) estimating the species composition of those targets by sampling the escapement, and (3) combining estimates of hydroacoustic targets and species composition to estimate numbers of passing salmon by species. During the initial years of the project, many changes were incorporated into the sonar and escapement sampling methods (McBride and Mesiar 1981, 1982; Minard 1983, 1985; Minard and Frederickson 1983). Few changes have been made in sonar operations since 1985, but changes have been made in the escapement sampling methods through the years (Morstad and Minard 1986, 1988; Bue 1988a, 1988b; Woolington and Bue 1989; Woolington and Miller 1992). Brannian et al. (1995) evaluated escapement sampling and the associated species apportionment methods used on Nushagak River during 1991 and compared them with methods used on the Lower Yukon River. Based on their project review, new methods of estimating Nushagak River salmon passage by species were incorporated in 1992 (Miller et al. 1994a).

Project objectives in 1995 were to provide daily estimates of spawning escapements for chinook, sockeye, chum, pink, and coho salmon from early June through late August and determine the age, sex, and size composition of these escapements.

METHODS

The sonar enumeration site was located on Nushagak River, approximately 40 km upstream from the terminus of the Nushagak commercial fishing district and 4 km downstream from the village of Portage Creek (Figure 1). This area was chosen because it is the only place in the lower Nushagak River where the entire river is contained within one channel approximately 300 m wide. Although

the site is located within tidal influence and a reduction in flow occurs at high tide, there is no reversal of flow and there appears to be very few fish milling in the area. Stock identification studies (Robertson 1979) indicated that the majority (93%) of the fish migrating past Portage Creek were destined for the Nushagak, Mulchatna, or Nuyakuk Rivers. Therefore it is assumed that very few fish migrating through the sonar would be stray fish from other rivers which might migrate downstream at a later date.

Hydroacoustic Counting

Sonar equipment used on Nushagak River included four Bendix Corporation² side-scanning salmon counters. Design characteristics of Bendix counters were described in King and Tarbox (1989). Gaudet (1983) provided a detailed description of sonar equipment use and procedures for counting salmon. Inshore and offshore counters were installed on the right and left (looking downstream) river banks. Inshore counters divided the counting range into 12 sectors; offshore counters divided the counting range into 16 sectors. All counters operated at 515 kHz with a pulse width of 100 μ s. Counting range, pulse repetition rate, and sensitivity were adjustable.

Counting ranges of the equipment and placement and number of transducers were determined by the river bottom contour (Figures 2, 3). The river bottom at the right and left banks sloped downward toward the middle of the river at an even rate for 15 to 20 m, then sloped away at a steeper rate. Because of this bottom configuration, two transducers (inshore and offshore) were used on each side of the river. Offshore transducers, located where the bottom contour changed, counted outward. Inshore transducers were deployed within 10 m of shore in water of sufficient depth for fish passage and counted out to the offshore transducer.

Transducers were mounted on metal tripods and oriented to count the lower portion of the water column. Minard (1985) determined that over 88% of the fish occupied the lower two-fifths of the water column. With the aid of an oscilloscope, all transducers were aimed with the sonar beam tangent to the river bottom, maximizing ensonification of passing fish. Offshore transducers were aimed with remote-controlled pan and tilt rotators, whereas inshore transducers were aimed by manually adjusting the angle of the transducer mounts on the tripods. A weir was constructed from the shore to just beyond the inshore transducer on both river banks to prevent fish from passing behind the transducers or within approximately 1 m of the transducer face, an area in which the system may not detect fish.

Pulse repetition rate was adjusted on each counter to maintain counting precision at $\pm 90\%$ using calibration procedures described by Minard and Frederickson (1983). Counters were calibrated by comparing counts recorded by a sonar counter to those recorded by a trained technician observing

² Mention of a product name does not constitute endorsement.

an oscilloscope pattern of the signal generated by that counter. Counts from the oscilloscope were hand tallied for either a 10-min period or 100 counts, whichever came first. At the end of the counting interval, the machine count was divided into the oscilloscope count to yield a percent agreement between the two. If the percent agreement was less than 90% or greater than 110%, the pulse repetition rate was adjusted until an acceptable percent agreement was achieved. Counters were calibrated throughout the day between 0600 and 2400 hours. Frequency of calibrations was somewhat dependent upon fish passage rates and the variability of fish swimming speeds; there was at least one calibration per hour during periods of peak fish passage.

Sonar count data were summarized by sector, counter location (inshore, offshore, left or right bank), hour, and day to evaluate spatial and temporal distributions of sonar counts.

Count Adjustment

A linear regression model comparing right bank inshore and offshore 24-hour sonar counts between the dates June 20 and July 15 was used to estimate the daily sonar passage in the right bank offshore stratum from June 15-18. An adjustment was required for this period due to apparent undercounting in the right bank offshore stratum. In producing the regression, I included only days on which right bank inshore daily sonar counts were less than 5,500. I assumed that days of low passage rates, similar to the days in question, would also be similar in their species composition. Days of high passage rates tend to demonstrate a higher percentage of sockeye and chum salmon than days of low passage, and sockeye salmon tend to be distributed closer inshore than chinook salmon (Miller et al. 1994a, 1994b; Miller 1995).

Escapement Sampling for Species Composition

Daily sonar counts were apportioned among salmon species based on species proportions in samples collected with a 45.7-m (25 fathom) beach seine and 18.3-m (10 fathom) drift gillnets with mesh sizes of 20.6 cm (8.125 in), 15.2 cm (6.0 in), and 13.0 cm (5.125 in). All gillnets were approximately 6 m deep. Twine size and color varied among mesh sizes depending solely on commercial availability. We sampled with beach seines just upstream and gillnets just downstream of the transducers so that catches represented the relative abundance of fish passing through the sonar beams. If time allowed, each gillnet drift started just below the sonar transducers. However, when time constraints occurred, the second drift in a sequence was started just downriver of the point where the previous drift ended. Because of the possibility that species composition was different between the inshore and offshore counting ranges, separate samples were taken: beach seines and gillnets for inshore and gillnets alone for offshore strata. Inshore drifts with gillnets were started with one end on the bank, while offshore drifts were started with the near shore end of the net approximately the same distance from shore as the offshore transducer.

The 13.0- and 15.2-cm mesh gillnets were fished for the entire season (June 10 - August 19), while the 20.6-cm mesh was fished only during the period of major chinook salmon passage (June 10 - July 24). Each gillnet mesh was fished for a minimum of two drifts inshore and two drifts offshore on each bank during each set of drifts. During the period of peak fish passage (June 19 - July 14), drift sessions were conducted three times daily: morning (0700 - 1100 hours), mid-day (1300 - 1700 hours), and evening (1800 - 2200 hours). Prior to June 19 and after July 14, drift sessions were conducted twice daily: mid-morning (0800 - 1000 hours) and early evening (1600 - 1800 hours). Drifts were not conducted at night because poor light conditions would make it impossible to maintain a drift within assigned strata. The maximum number of drifts conducted for each mesh size along each bank's inshore and offshore strata was six per day.

Data recorded for each gillnet drift included (1) date, (2) drift session number (1 = morning, 2 = afternoon, 3 = evening), (3) boat operator, (4) drift number sequentially ordered through the season, (5) mesh size, (6) right or left river bank, (7) inshore or offshore counting ranges, (8) net length in fathoms, (9) fishing time, (10) number and species of catch, (11) length of each fish caught, mid-eye to fork-of-tail to nearest millimeter, and (12) sex as determined from external characteristics. The following fishing times were determined and recorded using a stopwatch for each drift:

Time net full out (*FO*) - Min:Sec

Time net started in (*SI*) - Min:Sec

Gillnet sampling data were entered into an Rbase³ database.

When the fish passage rate on the right or left bank equaled or exceeded 1,000 fish/h, beach seines were used to sample inshore strata, whereas gillnets were used to sample offshore strata. For these days of high fish passage, at least three beach seine hauls per bank were conducted. The duration of a haul was not recorded because a unit of effort has not been defined for beach seining.

Species Composition Estimation

Daily estimates of fish by species were based on escapement samples and sonar count data. A program written in SAS (1988) for use on the Yukon River (Fleischman et al. 1992) was modified to analyze Nushagak River data. Daily sonar counts were apportioned to species by bank and counting range. Four area strata were defined (1=left inshore, 2=left offshore, 3=right inshore, 4=right offshore). Catch per unit of effort (CPUE) was used to calculate species proportions. Catch per fathom-hour was estimated for all species of salmon (chinook (1), sockeye (2), coho (3), pink (4), and chum (5) salmon), humpback whitefish *Coregonus pidschian* (6), and a category for "other" (7; includes rainbow trout *Salmo gairdneri* and Arctic char *Salvinus alpinus*).

³ Mention of product name does not constitute endorsement.

No adjustments for net selectivity among species were made. Brannian et al. (1995) and Miller et al. (1994a) concluded that in order to adjust for selectivity, selectivity curves must be estimated using fish length or girth data obtained from escapement samples on the Nushagak River. Selectivity of gillnets used at the Nushagak River sonar site are under review.

To estimate fishing effort, fishing time (FT) was calculated for each drift:

$$FT = SI - FO . \quad (1)$$

The number of fathom-hours (FH) was also calculated:

$$FH = \frac{fFT}{60} \quad (2)$$

where f was net length in fathoms (generally 10).

CPUE for each salmon species (group) was based on a subset of gillnet meshes fished. The combination of mesh sizes used to estimate the proportion of each species group was specified. CPUE for each species group i on day j in strata k was calculated by summing across the number caught (C_{ijkmn}) with mesh size (m) and drift (n):

$$CPUE_{ijk} = \frac{\sum_{m=1}^3 \sum_{n=1}^6 u_{im} C_{ijkmn}}{\sum_{m=1}^3 \sum_{n=1}^6 u_{im} FH_{jkmn}} , \quad (3)$$

where u_{im} equals 1 if species i from mesh m is used to estimate species composition, and u_{im} equals 0 otherwise.

CPUE were cumulated across days to create a time (t) and area stratified estimate of species composition (Appendix A.1.). The duration of a time stratum (report period) varied by range and bank and was specified as an input file. The desired sample size for each time-area strata was 100 salmon. Based on Thompson's (1987) "worst case" parameter value for a multinomial distribution, a sample size of 100 salmon would result in simultaneously estimating the proportion for each species within 10% of the true proportion 90% of the time. Even if (1) there was a departure from the assumption underlying a multinomial distribution or (2) our use of raw catches, instead of

CPUE data, decreased the likelihood of reaching the desired level of precision and accuracy, we felt that the 100-fish minimum sample size struck a balance between making strata too short to provide meaningful estimates of species composition and making strata so long that they failed to reflect seasonal changes in species composition. If <100 salmon were captured during a day in an area strata, catches from the same gear type from subsequent days were accumulated until 100 salmon were obtained to define a reporting period. CPUE was used to estimate the proportion of species i in report period t and area strata k :

$$CPUE_{itk} = \sum_{j \in t} CPUE_{ijk} . \quad (4)$$

Estimates of the proportion (S_{itk}) of species i for report period t and area strata k became

$$S_{itk} = \frac{CPUE_{itk}}{\sum_{i=1}^7 CPUE_{itk}} . \quad (5)$$

In order to estimate the variance of the S_{itk} , we generated replicate species proportion estimates (S_{ijk}) for each day j within report period t , S_{itk} then became a weighted mean of the S_{ijk} , where the weights are the total (all species) CPUE during day j of report period t . Variance of the S_{itk} were calculated after Cochran (1977) as

$$V(S_{itk}) = \frac{1}{J} \sum_{j \in t} \left(\frac{\sum_{i=1}^7 CPUE_{ijk}}{\frac{1}{J} \sum_{j=1}^J \sum_{i=1}^7 CPUE_{ijk}} \right)^2 \left(\frac{(S_{ijk} - S_{itk})^2}{(J-1)} \right) . \quad (6)$$

This variance estimator treats daily catches as clusters of fish (adjusted for unequal effort) sampled randomly from all fish passing by the site during report period t . The estimator accounts for the unequal size of the clusters by the weighting factor. Ideally, we should have treated the fish caught during each *session* of drifts (two or three sessions per day) as clusters, and generated replicate species proportions for each session. Unfortunately, sample sizes were too small to allow us to treat each session as a cluster.

If beach seining occurred on a particular day and at least 100 salmon were caught, it would supersede any gillnet data for that area strata. Otherwise, catch data were pooled across several days of beach seining to obtain at least 100 salmon or were just ignored, in which case gillnet data

were used. Species proportion estimates for the beach seine were based on the ratio of the number of species i caught (C_{ik}) to total catch for report period t and area strata k :

$$S_{ik} = \frac{C_{ik}}{\sum_{i=1}^7 C_{ik}} \quad (7)$$

Variance was estimated using equation (6) through substituting C_{ijk} for $CPUE_{ijk}$.

Salmon Escapement Estimation

Sonar counts for each area strata (right and left bank, inshore and offshore) were apportioned to species on a daily basis. Daily estimates for each salmon species and area strata (N_{ijk}) were based on estimates of species proportions (S_{ik}) from escapement sampling and daily sonar counts (n_{jk}):

$$N_{ijk} = S_{ik} n_{jk} \quad \text{where } j \in t. \quad (8)$$

Daily escapement by species was estimated by summing area strata estimates:

$$\hat{N}_{ij} = \sum_{k=1}^4 N_{ijk} \quad (9)$$

The daily estimate of variance became

$$V(N_{ij}) = \sum_{k=1}^4 n_{jk}^2 V(S_{ik}) \quad \text{where } j \in t. \quad (10)$$

Cumulative numbers of salmon were estimated by summing daily estimates, and the variance was a sum of daily variances. This variance is conservative because beach seine catches produce single day periods that have variances of zero.

Spatial Differences in Species Composition

The installation of two transducers on each bank (right in 1985 and left in 1989) established inshore and offshore counting ranges that could be treated separately in the estimation of species composition. We assumed that species composition differed by range and bank. Collection of data by bank and range allowed for testing the hypothesis that species composition did not differ between counting ranges within each bank. Chi-square tests for contingency tables were used to test these hypotheses. Drift gillnet catches were stratified through time to account for the differences in migratory timing among salmon species. Catch data for each time strata were classified simultaneously by species and range into a two-way contingency table. Length of the time strata varied to incorporate overall sample sizes of 140 to 180 fish in order to guarantee a power $(1-\beta) > 0.8$ for 2 or 3 df when $\alpha=0.01$ and medium effective size (ES) of 0.3 based on Tables from Cohen (1988). The Bonferroni inequality (Mendenhall et al. 1986) was applied to set a significance criterion at 0.01 to allow for an overall significance level of 0.1 as multiple tests (maximum 10) were conducted.

Coho Salmon Far Offshore Sampling

Additional gillnet drifts were conducted beyond the end of the offshore strata from August 6-19 to see if coho salmon were migrating upstream outside the range of the sonar equipment. These “far offshore” drifts were started with the near-shore end of the net approximately 10 m beyond the end of the offshore transducer range. Both 13.0- and 15.2-cm mesh gillnets were fished twice during each drift session in each of the inshore, offshore, and far offshore strata on each river bank. The depth of each net (~6 m) was sufficient to fully sample the entire water column (<5 m) in all strata. Coho salmon CPUE was compared among strata.

Mesh Size Selection

Escapement estimates are effected to some degree by the combination of mesh sizes used in apportioning sonar counts. Miller et al. (1994b) and Miller (1995) found that 13.0- and 15.2-cm mesh gillnets were not significantly (nonstatistical comparison - NSC) size selective for sockeye, chum, coho, or chinook salmon. The 20.6-cm mesh gillnet, however, tended to select for large sockeye and chum salmon. Therefore, only 13.0- and 15.2-cm mesh data were used to apportion sockeye, chum, and coho salmon, while data from all three mesh sizes (13.0-, 15.2-, and 20.6-cm) were used to apportion chinook salmon.

Age, Sex, and Size Sampling

Age, sex, and size (AWL) data were collected from chinook, sockeye, chum, and coho salmon migrating past the sonar site. In the past, only sockeye and chum salmon captured with beach seines were sampled for AWL data to avoid size-selectivity associated with gillnets (Miller 1995). However, Miller et al. (1994a; 1994b) found that the length distributions of sockeye salmon caught with beach seine and 15.2-cm mesh gillnet were similar. Therefore, it was decided to sample sockeye salmon caught in 13.0- and 15.2-cm mesh gillnets and beach seines in an attempt to increase sockeye salmon sample size. As in the past, only chum salmon captured with beach seines were sampled for AWL data. All chinook and coho salmon captured were sampled to increase the number of AWL samples.

Age was determined by examining scales (Mosher 1968). Scales were collected from the left side of the fish approximately two rows above the lateral line in an area crossed by a diagonal from the posterior insertion of the dorsal fin to the anterior insertion of the anal fin (INPFC 1963). Because of the high rate of scale regeneration among chinook and coho salmon, three scales were collected from each fish. Only one scale per fish was collected from sockeye and chum salmon. Scales were mounted on gummed cards and impressions were made in cellulose acetate (Clutter and Whitesel 1956). We used European notation (Koo 1962) to record ages: numerals preceding the decimal refer to the number of freshwater annuli and numerals following the decimal refer to the number of marine annuli. Total age from time of egg deposition, or brood year, is the sum of these two numbers plus one to account for incubation time.

Sampling goals by species for the entire season were 1,200 sockeye, 600 chinook, 400 chum, and 250 coho salmon. The desired level of accuracy and precision for sockeye and chinook salmon age composition was 0.05. Based on Thompson's (1987) work, a sample size of 510 readable scales would simultaneously estimate the major age class within 5% of the true percentage 95% of the time. A sample size of 600 per strata was set for sockeye and chinook to account for regenerated and unageable scales. Two time strata were desired for sockeye salmon, therefore the goal for the season was set at 1,200. A sample size of 400 chum and 250 coho salmon scales ensured simultaneously estimating each major age class within 5% of the true percentage 90% of the time.

Salmon were measured from the middle of the eye to the fork of the tail and lengths were recorded to the nearest millimeter. Sex was determined from external characteristics.

Migratory Timing

Average proportions of passage by day for sockeye, chinook, chum, and pink salmon were calculated using all years that sonar data were available. Average proportions for coho salmon were calculated using only years that the project was operated through at least August 21. Average

daily proportions (p_j) were calculated by summing daily proportions (p_{ji}) for all years used and dividing by total number of years used (Y):

$$\overline{p_j} = \frac{\sum_{i=1}^Y p_{ji}}{Y} \quad (11)$$

Average cumulative proportions by day were calculated by summing the average daily proportions through time.

The 1995 runs by species were compared to their desired goals at the sonar site through time by applying historic migratory timing to the goals. The average daily cumulative proportions for each species were multiplied by their respective escapement goals (550,000 for sockeye salmon, 75,000 for chinook salmon, 350,000 for chum salmon, and 100,000 for coho salmon).

Climatological Data

Weather data were collected at approximately 0800 and 2000 hrs each day. Precipitation was measured to the nearest millimeter using a Taylor Clear View⁴ rain gauge; wind direction and velocity were estimated; and air temperature was measured to the nearest 0.1° C and water temperature to the nearest 0.5° C with a mercury thermometer.

RESULTS

Hydroacoustic Counting

Counting began in the right and left bank inshore strata on June 8, and in the right and left bank offshore strata on June 9. Counting ended on August 24 in right and left bank offshore counting ranges and on August 25 in right and left bank inshore counting strata. Weather conditions had little effect on counting abilities in 1995 (Appendix B.1.).

⁴ Mention of product name does not constitute endorsement.

Count Adjustments

On June 15, a measurable increase in sonar counts occurred in all strata except the right bank offshore stratum. After the right bank offshore tripod was re-positioned on June 19 sonar counts increased substantially for that range, indicating sonar counts in the days prior may have been artificially low. A linear regression between 24-hour counts of the right bank inshore and offshore counting ranges was used to adjust for the apparent undercounting. I decided to use the right bank inshore to offshore relationship for the adjustment rather than the left bank inshore to offshore or left bank offshore to right bank offshore relationships because of the difference in species composition between the right and left bank strata during the time period in question (Table 1). Higher proportions of sockeye and chum salmon were observed in both right bank strata as compared to left bank strata. The right bank inshore to offshore regression indicated a significant relationship for the dates June 20 - July 15 (Figure 4; $F = 11.89$; $p = .007$). Although the observed data were highly variable in the range that was to be predicted, the regression line passed through the center of the data points. The accuracy of a predicted daily count could be deduced from this variability, but it is the sum of these counts in which resource managers are interested and for which daily overages and underages would cancel for an unbiased regression model. Right bank offshore counts estimated using the regression equaled 3,236 from June 15-18 (Table 2). After adjustments were made, total counts for all strata in 1995 equaled 629,338 (Table 3).

Gear Placement

Water level changes during project operation necessitated occasional repositioning of transducer tripods and adjustments of counting ranges (Table 4). The right bank inshore transducer counting range varied between 6.4 and 8.5 m, and the right bank offshore counting range varied between 13.7 and 21.3 m (Figure 2). Combined right bank counting range fluctuated between 20.1 and 28.5 m. The left bank inshore transducer ensonified between 6.9 and 11.6 m of river, and the left bank offshore transducer ensonified between 13.7 and 18.3 m (Figure 3). Combined left bank counting range varied between 22.3 and 28.3 m. Total ensonification for the right and left banks combined ranged from 44.7 to 53.9 m, or approximately 16% to 20% of the total river width.

Spatial Distribution of Sonar Counts

Throughout project operation, more counts occurred on the right bank (391,795) than on the left bank (237,543; Table 3). The right bank inshore stratum accounted for 80% of the right bank sonar counts, while the left bank inshore stratum accounted for 62% of the left bank sonar counts. (Appendices C.1 through C.4).

Differences in run timing among species allowed us to look at spatial distributions of sonar counts during two separate time periods. Sockeye, chinook, and chum salmon were present primarily from the beginning of project operation (June 8) through July 24. Coho salmon were the primary species present after July 24.

June 8 - July 24. During the period of sockeye, chinook, and chum salmon passage, most counts in the right and left bank offshore strata were recorded within the first half of the counting range. The last four sectors of the right bank offshore area accounted for 1.8% of the right bank offshore counts and < 0.1% of the right bank inshore and offshore combined counts. The last four sectors of the left bank offshore area accounted for 3.5% of the left bank offshore counts and 1.4% of the left bank inshore and offshore combined counts.

Distribution of sonar counts by sector were similar for both right and left bank inshore counting ranges (Table 3; Figures 5, 6). Several peaks in sonar counts occurred in both ranges between June 25 and July 11. Two major peaks occurred in the right bank inshore counting range on June 26 and July 8, with a smaller peak occurring on July 1. The left bank inshore range experienced a major peak on June 26 and a minor peak on July 8. Most counts were observed in the middle of the counting ranges with fewer counts occurring at the inshore and offshore ends.

Sonar count distribution was also similar for the right and left bank offshore counting ranges (Figures 5, 6). Both strata experienced a major peak in sonar counts on June 26. A second peak was observed in the left bank offshore range on June 15 and in the right bank offshore range on July 8 (Table 3; Figures 5, 6). The distribution of sonar counts among sectors was also similar between ranges. Most counts in both offshore strata were recorded within the inshore half of the counting ranges.

July 25 - August 25. As with the earlier time period, most counts observed in the offshore strata during the period of coho salmon passage were recorded within the first half of the counting ranges. The last four sectors of the right bank offshore area accounted for 7.4% of the right bank offshore counts and 1.7% of the right bank inshore and offshore combined counts. The last four sectors of the left bank offshore area accounted for 6.5% of the left bank offshore counts and only 1.8% of the left bank inshore and offshore combined counts.

During this time period both right and left bank inshore strata experienced a peak day of passage on August 6 (Table 3; Figure 7, 8). Several minor peaks were recorded in both strata. Count distribution by sector was highly variable in both right and left bank inshore ranges.

Both offshore ranges experienced several minor peaks in sonar counts during the period of coho salmon passage (Table 3; Figures 7, 8). Peaks in both ranges occurred on July 25, August 6, and August 23. Count distribution indicated that most of the counts occurred within the inshore half of the offshore counting ranges (Figures 7, 8).

Temporal Distribution of Sonar Counts

Information on patterns of hourly fish passage are of interest to determine optimal times for test fishing and equipment calibration. Any or all of a combination of variables such as tide, weather (winds, rainfall, etc...), and hours of daylight, as well as the time, date, and duration of commercial fishing periods might influence when migrating fish would pass the sonar site. Again, differences in run timing among species allowed us to look at temporal distributions of sonar counts during two time periods: June 8 - July 24 and July 25 - August 25.

June 8 - July 24. Average count distribution in the right bank offshore stratum indicated that fish passage fluctuated throughout the day, with peaks occurring around 0100, 1000, and 2100 (Figure 9). There were no apparent trends in hourly fish passage in the right bank inshore or left bank inshore and offshore strata during this time period.

July 25 - August 25. On average in the left and right bank offshore ranges, passage appeared to be lowest between 2400 and 0500 (Figure 10). Average peak passage in both ranges occurred around 0700 and again between 1800 and 2000. The right bank inshore range showed a slight increasing trend in average fish passage throughout the day, while count distribution in the left bank inshore range showed no apparent trend.

Escapement Sampling Catch and Effort

A total of 3,726 gillnet drifts were completed in 1995 (Appendix D.1). The 20.6-, 15.2-, and 13.0-cm mesh gillnets caught 237, 828, and 966 salmon, respectively. The total gillnet catch of 2,044 fish was composed of 450 chinook salmon, 736 sockeye salmon, 580 chum salmon, and 265 coho salmon, and 13 whitefish and "other" fish. Most salmon were caught in the right bank inshore stratum (654), followed by the left inshore (489), left offshore (460) and right offshore (425) strata. Beach seines were fished from June 26 through July 9 (Appendix D.2.). A total of 1,458 salmon, mostly sockeye (965) and chum (436), were caught in 50 beach seine sets. Only 53 chinook salmon and 3 coho salmon were caught in beach seines. One pink salmon was caught in a beach seine set on July 7.

Beach seines caught the greatest number of sockeye salmon (965), followed by 13.0-cm mesh gillnets (408), 15.2-cm mesh (244), and 20.6-cm mesh (84) gillnets. Similarly, chum salmon were also caught predominantly in beach seines (436), followed by 15.2-cm mesh gillnets (297), 13.0-cm mesh (247), and 20.6-cm mesh (36) gillnets. Most chinook salmon were captured in gillnets, with more being caught in the 15.2-cm (170) and 13.0-cm (167) mesh than in the 20.6-cm mesh (113).

Most coho salmon were captured in 13.0-cm mesh gillnets (144) followed by 15.2-cm mesh gillnets (117), 20.6-cm mesh gillnets (4), and beach seines (3).

Duration of gillnet drifts ranged from 1.5 to 3.0 min. The average drift duration was 2.5 min (SE = 0.06).

Range Differences in Species Composition

Drift gillnet sampling data were divided into five periods between June 10 and August 19 (Table 5). For some periods it was necessary to combine species into an "other" category to guarantee adequate sample sizes for conducting the chi-square test. Sample size restrictions allowed for only four periods on the right bank. There were significant differences ($\alpha = 0.01$) in species composition between inshore and offshore strata for all four right bank periods. Significant differences were found between inshore and offshore strata for four of five periods on the left bank. Differences on the left bank were primarily due to the large catches of chinook salmon in the offshore range and the large catches of sockeye salmon in the inshore range. Chum salmon showed no preference between the inshore and offshore range on the left bank. Differences in three of the four right bank periods were due to higher than expected numbers of chinook salmon in the offshore range and higher than expected numbers of sockeye salmon in the inshore range. The difference in the first period on the right bank was due to a large catch of chinook salmon in the offshore range and a large catch of chum salmon in the inshore range. Coho salmon showed no consistent preference between the inshore and offshore ranges on either bank.

Estimates of Escapement

The overall salmon escapement estimate for Nushagak River in 1995 was 625,957 fish. This included 281,307 sockeye, 85,622 chinook, 212,612 chum, 76 pink, and 46,340 coho salmon (Table 6). In addition, 785 whitefish and 2,596 "other" fish (Arctic char and rainbow trout) were counted passing the sonar site in 1995.

Sockeye Salmon

Sockeye salmon were estimated passing the sonar site from June 8 through August 19 (Table 6). The 1995 escapement estimate of 281,307 sockeye salmon (S.E. = 6,727) was only 51% of the 550,000 biological escapement goal.

Escapement timing of sockeye salmon in 1995 ranged from 2 d ahead to 7 d behind the 1980 - 1994 average escapement timing (Table 7; Figure 11). Several peaks in sockeye salmon passage occurred between June 25 and July 11, with the largest peak of 48,281 occurring on July 8.

Age and sex were determined for 917 sockeye salmon, 912 of which were also measured for length (Table 8). The most prominent age class was age-1.3 (1990 brood year) at 28%, followed by age-1.2 (1991 brood year) and age-0.2 (1992 brood year) at 19% each, and age-0.3 (1991 brood year) at 17%. The male to female ratio was 60:40. Mean length by age ranged from 430 to 589 mm (Table 8).

Chinook Salmon

Chinook salmon were counted passing the sonar site immediately following installation of the sonar equipment on June 8 (Table 6). The 1995 escapement estimate of 85,662 chinook salmon (S.E. = 5,517) was 114% of the 75,000 inriver escapement goal.

Chinook salmon were estimated at the sonar site through August 19. Chinook salmon escapement timing at the beginning of the season was one to six days later than the average escapement timing for the previous eleven years (Table 9; Figure 12), but jumped five to fifteen days ahead of the 11-year average after the peak day of chinook salmon passage (June 26).

Age, sex, and length were determined for 379 chinook salmon (Table 10). Three major age classes were present: age-1.4 (42%; 1989 brood year); -1.2 (40%; 1991 brood year); and -1.3 (16%; 1990 brood year). The chinook salmon escapement was estimated to be 41% males and 59% females. Actual percentage of males in the escapement may be higher. The 1995 age-1.2 male to female sex ratio of 41:59 appears low when compared with historic Nushagak River age-1.2 chinook salmon escapement sex composition estimates (Table 11), and may have resulted from inaccurate sex determination of smaller fish. Mean length by age ranged from 366 mm for age-1.1 to 944 mm for age-1.5 chinook salmon (Table 10).

Chum Salmon

As with sockeye and chinook salmon, chum salmon were counted migrating past the sonar site the same day the sonar equipment was installed, June 8 (Table 6). There is no formal biological escapement goal for chum salmon in the Nushagak River, but the 1995 escapement estimate of 212,612 (S.E. = 7,237) was 61% of the historical escapement objective of 350,000.

Chum salmon escapement timing was similar to the previous 15-year average through July 1 (Table 12; Figure 13). After that date the chum salmon escapement timing fell 1 to 7 days behind the 15-

year average. Several peaks in chum salmon passage occurred between June 15 and July 8, with the largest peak of 50,089 chum salmon occurring on June 26.

Age and sex were determined for 438 chum salmon, 436 of which were measured for length (Table 13). Age-0.3 (44%; 1991 brood year) and -0.4 (43%; 1990 brood year) chum salmon predominated. The male to female ratio was 57:43. Mean length by age ranged from 529 to 589 mm (Table 13).

Pink Salmon

Pink salmon normally return to the Nushagak River during even-numbered years (Table 14). One pink salmon caught in a beach seine set on July 7 resulted in an estimated 76 pink salmon passing the sonar site in 1995 (Table 6).

Coho Salmon

Escapement sampling data indicated that coho salmon began migrating past the sonar site as early as July 8 (Table 6). The 1995 escapement estimate of 46,340 coho salmon (S.E. = 1,338) was 46% of the 100,000 inriver escapement goal.

Coho salmon escapement timing fell behind the 1984-85, 1988-91, and 1993 7-year average on July 21 and remained behind the 7-year average throughout the season (Table 15; Figure 14). The peak day of coho salmon passage occurred August 5, with an estimated passage of 8,274.

Age, sex, and length were determined for 222 coho salmon (Table 16). Age-2.1 (91%; 1991 brood year) coho salmon were the predominate age class, followed by age-3.1 (5%; 1990 brood year) and age-1.1 (4%; 1992 brood year). The percentage of males and females were 61% and 39%. Mean length by age ranged from 510 to 542 mm (Table 16).

Far Offshore Sampling. During the period of far offshore sampling (August 6-19), coho salmon CPUE was higher on each bank in the inshore and offshore strata than in the far offshore stratum (Table 17). On the left bank, coho salmon CPUE was similar between the inshore (8.95) and offshore (7.73) ranges and lower in the far offshore range (1.17). On the right bank, the inshore stratum experienced the highest CPUE (39.52), followed by the offshore (18.59) and far offshore (4.16) strata. CPUE in the far offshore strata on each bank was 7% of the total CPUE for that bank (Table 17).

Far offshore sampling dates were chosen in the hopes of encompassing a majority of the 1995 coho salmon escapement (on average, 60% of the escapement occurs between August 6 and 19; Table

15). However, in 1995 only 40% of the coho salmon escapement occurred between August 6 and 19. In addition, historic escapement timing indicates that peak coho salmon passage at the sonar site occurs on August 11. Peak coho salmon passage in 1995 occurred on August 5, and peak coho salmon passage during the period of far offshore sampling (6,208) occurred on August 6 (Table 15). Consequently, far offshore sampling results in 1995 do not represent peak coho salmon passage and only represent 40% of the total coho salmon escapement.

LITERATURE CITED

- Brannian, L.K., S.J. Fleischman, J.D. Miller, and B.A. Cross. 1995. Evaluation of species composition escapement estimates of Pacific salmon into the Nushagak River, 1991. Alaska Department of Fish and Game, Division of Commercial Fisheries, Draft Technical Fisheries Report, Anchorage.
- Bue, B.G. 1988a. Sonar enumeration of Pacific salmon escapement to the Nushagak River, 1987. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 2A88-5, Anchorage.
- Bue, B.G. 1988b. Sonar enumeration of Pacific salmon escapement to the Nushagak River, 1988. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 2D88-10, Anchorage.
- Clutter, R., and L. Whitesel. 1956. Collection and interpretation of sockeye salmon scales. International Pacific Salmon Fisheries Commission Bulletin 9.
- Cochran, W.G. 1977. Sampling techniques, 3rd edition. John Wiley & Sons, New York.
- Cohen, J. 1988. Statistical power analysis for the behavioral sciences, second edition, Lawrence Erlbaum Associates, Inc., Hillsdale, New Jersey.
- Fleischman, S., D.C. Mesiar, and P. Skvorc. 1992. Yukon River sonar estimate appendices 1991. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 3A92-09, Anchorage.
- Gaudet, D.M. 1983. 1982 Bendix adult counter manual. Alaska Department of Fish and Game, Division of Commercial Fisheries, Juneau.
- INPFC (International North Pacific Fisheries Commission). 1963. Annual report 1961, Vancouver, British Columbia.
- King, B.E., and K.E. Tarbox. 1989. Upper Cook Inlet salmon escapement studies, 1989. Alaska Department of Fish and Game, Division of Commercial Fisheries, Juneau. Technical Fisheries Report 89-19, Juneau.
- Koo, T.S.Y. 1962. Age designation in salmon. Pages 37-48 *in* T.S.Y. Koo, editor. Studies of Alaska red salmon. University of Washington Publications in Fisheries, New Series, Volume I, Seattle.

LITERATURE CITED (Continued)

- McBride, D.N. 1981. Nushagak River sonar enumeration studies, 1979. *Appendix A in* Nushagak sonar enumeration project, 1980. Alaska Department of Fish and Game, Division of Commercial Fisheries, Bristol Bay Data Report 83, Anchorage.
- McBride, D., and D. Mesiar. 1981. Nushagak sonar enumeration project, 1980. Alaska Department of Fish and Game, Division of Commercial Fisheries, Bristol Bay Data Report 83, Anchorage.
- McBride, D., and D. Mesiar. 1982. Nushagak sonar enumeration project, 1981. Alaska Department of Fish and Game, Division of Commercial Fisheries, Bristol Bay Data Report 88, Anchorage.
- Mendenhall, W., R.L. Scheaffer, D.D. Wackerly. 1986. Mathematical statistics with applications. Third Edition. Duxbury Press, Boston.
- Miller, J.D. 1995. Sonar enumeration of Pacific salmon into Nushagak River, 1994. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A95-10, Anchorage.
- Miller, J.D., L.K. Brannian, and B.A. Cross. 1994a. Sonar enumeration of Pacific salmon into Nushagak River, 1992. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Technical Fisheries Report 94-06, Juneau.
- Miller, J.D., L.K. Brannian, and B.A. Cross. 1994b. Sonar enumeration of Pacific salmon into the Nushagak River, 1993. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Regional Information Report 2A94-20, Anchorage.
- Minard, R.E. 1983. Nushagak sonar enumeration project, 1982. Alaska Department of Fish and Game, Division of Commercial Fisheries, Bristol Bay Data Report 92, Anchorage.
- Minard, R.E. 1985. Nushagak sonar salmon enumeration project, 1984. Alaska Department of Fish and Game, Division of Commercial Fisheries, Bristol Bay Data Report 85-3, Anchorage.
- Minard, R.E., and M. Frederickson. 1983. Nushagak River sonar salmon enumeration project, 1983. Alaska Department of Fish and Game, Division of Commercial Fisheries, Bristol Bay Data Report 97, Anchorage.

LITERATURE CITED (Continued)

- Morstad, S.P. and R.E. Minard. 1986. Nushagak sonar salmon enumeration project, 1985. Alaska Department of Fish and Game, Division of Commercial Fisheries, Bristol Bay Data Report 86-3, Anchorage.
- Morstad, S.P. and R.E. Minard. 1988. Nushagak sonar salmon enumeration project, 1986. Alaska Department of Fish and game, Division of Commercial Fisheries, Bristol Bay Data Report 87-3, Anchorage.
- Mosher, K. 1968. Photographic atlas of sockeye salmon scales. Fishery Bulletin 67:243-280.
- Robertson, T. 1979. Nushagak Stock Separation Study. Alaska Department of Fish and Game, Division of Commercial Fisheries unpublished memorandum. 22 pp.
- Thompson, S.K. 1987. Sample size for estimating multinomial proportions. The American Statistician, 41:42-46.
- SAS Institute Inc. 1988. SAS language guide for personal computers, Release 6.03 Edition. Cary, NC.
- Woolington, J.D. *In press*. Sonar enumeration of Pacific salmon escapement into the Nushagak River, 1990. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report, Anchorage
- Woolington, J.D., and B.G. Bue. 1989. Sonar enumeration of Pacific salmon escapement into the Nushagak River, 1989. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 2D89-17, Anchorage.
- Woolington, J.D., and J.D. Miller. 1992. Sonar enumeration of Pacific salmon escapement into the Nushagak River, 1991. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 2A92-30, Anchorage.

Table 1. Escapement sampling catch proportions by counting range, date, and species, Nushagak River sonar project, June 15-18, 1995.

Range	Date	Catch	Proportion of Catch			Total
			Chinook	Sockeye	Chum	
Left	6/15	7	1.00	0.00	0.00	1.00
Bank	6/16	4	0.70	0.00	0.30	1.00
Inshore	6/17	5	1.00	0.00	0.00	1.00
	6/18	2	0.00	0.50	0.50	1.00
	6/15-6/19	18	0.82	0.06	0.12	1.00
Left	6/15	13	1.00	0.00	0.00	1.00
Bank	6/16	6	0.77	0.23	0.00	1.00
Offshore	6/17	7	1.00	0.00	0.00	1.00
	6/18	3	1.00	0.00	0.00	1.00
	6/15-6/19	29	0.95	0.05	0.00	1.00
Right	6/15	14	0.21	0.32	0.47	1.00
Bank	6/16	0	0.00	0.00	0.00	0.00
Inshore	6/17	4	0.70	0.00	0.30	1.00
	6/18	5	0.31	0.00	0.69	1.00
	6/15-6/19	23	0.32	0.19	0.49	1.00
Right	6/15	10	0.73	0.00	0.27	1.00
Bank	6/16	2	1.00	0.00	0.00	1.00
Offshore	6/17	0	0.00	0.00	0.00	0.00
	6/18	9	0.50	0.13	0.38	1.00
	6/15-6/19	21	0.66	0.05	0.29	1.00

Table 2. Right bank inshore sonar counts, original offshore sonar counts, and adjusted offshore sonar counts, Nushagak River sonar project, June 15-18, 1995.

Date	Right Bank Inshore Counts	Right Bank Offshore Original Counts	Right Bank Offshore Adjusted Counts
15-Jun	2,061	51	971
16-Jun	865	39	712
17-Jun	805	171	699
18-Jun	1,519	56	854
Total Counts	5,250	317	3,236
Total counts added to original estimate			2,919

Table 3. Inshore and offshore sonar counts by bank and day, Nushagak River sonar project, 1995.

Date	Left Bank		Right Bank	
	Inshore	Offshore	Inshore	Offshore
6/08	92 ^a	0	72 ^b	0
6/09	252	74 ^c	159	43 ^d
6/10	178	64	349	37
6/11	162	65	108	31
6/12	199	54	115	13
6/13	370	59	141	21
6/14	827	123	228	30
6/15	864	4,168	2,035	971 ^e
6/16	1,168	1,784	865	712 ^e
6/17	819	1,009	805	699 ^e
6/18	588	684	1,519	854 ^e
6/19	435	985	1,516	1,288
6/20	535	1,080	589	805
6/21	388	1,080	572	643
6/22	507	336	333	582
6/23	284	604	444	1,260
6/24	143	965	3,461	1,750
6/25	11,837	6,258	22,765	3,879
6/26	25,626	17,607	36,353	12,080
6/27	22,552	9,778	24,698	4,514
6/28	4,886	4,257	8,998	2,244
6/29	4,033	3,266	7,809	2,414
6/30	4,646	3,933	12,664	2,734
7/01	4,701	3,280	19,682	2,954
7/02	2,533	2,411	9,764	2,099
7/03	3,942	2,542	11,592	2,249
7/04	3,549	1,983	6,510	1,527
7/05	1,439	1,400	2,153	870
7/06	2,741	1,088	6,019	869
7/07	1,750	1,660	15,259	3,057
7/08	9,242	3,381	49,747	8,492
7/09	6,658	2,450	19,510	2,981
7/10	1,219	1,359	5,368	1,515
7/11	3,587	1,582	7,680	1,373
7/12	1,448	1,213	3,217	1,157
7/13	1,007	634	1,147	580
7/14	1,034	215	648	313
7/15	1,004	155	506	288
7/16	804	298	887	637

-Continued-

Table 3. (p 2 of 3)

Date	Left Bank		Right Bank	
	Inshore	Offshore	Inshore	Offshore
7/17	858	184	668	487
7/18	458	145	374	217
7/19	704	143	218	133
7/20	728	99	204	88
7/21	449	122	171	109
7/22	801	232	240	213
7/23	613	98	121	171
7/24	403	263	613	316
7/25	984	872	1,311	897
7/26	857	567	919	697
7/27	310	165	217	121
7/28	400	100	428	113
7/29	303	219	670	298
7/30	445	245	947	251
7/31	305	181	662	271
8/01	264	75	242	130
8/02	382	196	490	385
8/03	388	109	263	149
8/04	209	38	440	85
8/05	2,090	281	5,716	794
8/06	1,644	484	3,639	930
8/07	430	180	830	508
8/08	240	70	211	88
8/09	251	35	176	137
8/10	246	53	733	187
8/11	407	80	1,293	253
8/12	184	36	777	70
8/13	909	85	1,849	128
8/14	469	40	674	68
8/15	196	4	329	34
8/16	234	19	271	27
8/17	173	48	229	28
8/18	372	21	176	43
8/19	216	25	262	37
8/20	202	66	134	31
8/21	240	79	187	75
8/22	225	38	228	30
8/23	273	524	251	419
8/24	227	218 ^f	407	206 ^f
8/25	82 ^g		149 ^g	
Total	147,220	90,323	314,006	77,789

-Continued-

Table 3. (p 3 of 3)

- ^a Counting began at 1800 in the left bank inshore counting range.
- ^b Counting began at 1400 in the right bank inshore counting range.
- ^c Counting began at 1300 in the left bank offshore counting range.
- ^d Counting began at 1200 in the right bank offshore counting range.
- ^e Estimated counts from linear regression model.
- ^f Counting ended at 1800 in the left and right bank offshore counting ranges.
- ^g Counting ended at 1200 in the left and right bank inshore counting ranges.

Table 4. Counting ranges for sonar counters on right and left banks, Nushagak River sonar project, 1995.

Right Bank				Left Bank			
Inshore		Offshore		Inshore		Offshore	
Date	Distance ^a (m)	Date	Distance (m)	Date	Distance (m)	Date	Distance (m)
6/08	8.5	6/09 - 6/14	21.3	6/08	11.6	6/09 - 6/10	18.3
6/09 - 6/10	7.2	6/15 - 6/17	20.7	6/09 - 6/10	7.0	6/11	16.8
6/11 - 6/15	7.0	6/18	15.5	6/11	6.9	6/12 - 6/13	14.3
6/16 - 6/17	6.7	6/19 - 6/24	18.3	6/12 - 6/17	8.5	6/14 - 6/17	13.7
6/18 - 6/23	7.0	6/25 - 6/27	14.3	6/18 - 6/28	10.1	6/18 - 6/24	18.3
6/24 - 6/26	7.3	6/28 - 7/04	14.2	6/29 - 7/02	8.1	6/25 - 6/26	17.7
6/27 - 7/05	6.7	7/05	13.9	7/03	8.2	6/27 - 7/04	16.8
7/06 - 7/11	7.0	7/06	14.3	7/04	8.5	7/05 - 7/13	17.4
7/12 - 7/13	6.9	7/07	14.2	7/05 - 7/10	8.2	7/14 - 8/25	17.1
7/14 - 7/29	7.0	7/08 - 7/10	14.3	7/11 - 7/17	8.1		
7/30 - 8/10	6.7	7/11 - 8/09	14.2	7/18	7.8		
8/11 - 8/13	7.0	8/10 - 8/25	13.7	7/19 - 8/25	7.5		
8/14	6.9						
8/15	7.0						
8/16	6.9						
8/17	7.0						
8/18	7.3						
8/19 - 8/22	6.7						
8/23	6.9						
8/24	6.4						
8/25	6.7						

^a Total distance from transducer that sonar beam was set to count fish.

Table 5. Chi-square test results comparing gillnet catches among inshore and offshore strata by period and river bank, Nushagak River sonar project, June 10 - August 19, 1995.

Period	River Bank	Chi-square	df	Approximate Probability of Larger Value
6/10 - 6/25	Right	21.593 ^a	1	0.000 ^b
	Left	14.112 ^a	1	0.000 ^b
6/28 - 6/30	Right	34.957 ^c	2	0.000 ^b
	Left	28.262 ^c	2	0.000 ^b
7/01 - 7/05	Right	38.296 ^c	2	0.000 ^b
	Left	28.012 ^c	2	0.000 ^b
7/10 - 7/31	Right	36.237 ^c	3	0.000 ^b
	Left	22.743 ^c	3	0.000 ^b
8/01 - 8/19	Right	^d		
	Left	2.744 ^e	1	0.098

^a Test included chinook salmon and other (sockeye and chum salmon).

^b Significant at $\alpha = 0.01$.

^c Test included chinook, sockeye, and chum salmon.

^d Insufficient sample size.

^e Test included coho salmon and other (sockeye, chinook, and chum salmon)

Table 6. Final daily and cumulative escapement estimates by species, Nushagak River sonar project, 1995.

Date	Sockeye		Chinook		Chum		Pink		Coho		Total	
	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
6/08	36	36	40	40	88	88	0	0	0	0	164	164
6/09	96	132	172	212	258	346	0	0	0	0	526	690
6/10	140	272	161	373	324	670	0	0	0	0	625	1,315
6/11	64	336	125	498	175	845	0	0	0	0	364	1,679
6/12	68	404	125	623	186	1,031	0	0	0	0	379	2,058
6/13	104	508	193	816	293	1,324	0	0	0	0	590	2,648
6/14	202	710	409	1,225	595	1,919	0	0	0	0	1,206	3,854
6/15	995	1,705	3,896	5,121	3,125	5,044	0	0	0	0	8,016	11,870
6/16	606	2,311	2,029	7,150	1,884	6,928	0	0	0	0	4,519	16,389
6/17	522	2,833	1,329	8,479	1,472	8,400	0	0	0	0	3,323	19,712
6/18	729	3,562	1,143	9,622	1,757	10,157	0	0	0	0	3,629	23,341
6/19	798	4,360	1,444	11,066	1,967	12,124	0	0	0	0	4,209	27,550
6/20	437	4,797	1,291	12,357	1,275	13,399	0	0	0	0	3,003	30,553
6/21	377	5,174	1,190	13,547	1,111	14,510	0	0	0	0	2,678	33,231
6/22	301	5,475	636	14,183	818	15,328	0	0	0	0	1,755	34,986
6/23	443	5,918	976	15,159	1,168	16,496	0	0	0	0	2,587	37,573
6/24	1,430	7,348	1,701	16,860	3,151	19,647	0	0	0	0	6,282	43,855
6/25	9,495	16,843	12,525	29,385	22,478	42,125	0	0	0	0	44,498	88,353
6/26	24,849	41,692	16,726	46,111	50,089	92,214	0	0	0	0	91,664	180,017
6/27	36,906	78,598	6,242	52,353	18,394	110,608	0	0	0	0	61,542	241,559
6/28	9,701	88,299	3,175	55,528	7,509	118,117	0	0	0	0	20,385	261,944
6/29	8,465	96,764	2,630	58,158	6,426	124,543	0	0	0	0	17,521	279,465
6/30	12,221	108,985	3,195	61,353	8,561	133,104	0	0	0	0	23,977	303,442
7/01	16,971	125,956	3,110	64,463	10,535	143,639	0	0	0	0	30,616	334,058
7/02	8,510	134,466	1,888	66,351	6,408	150,047	0	0	0	0	16,806	350,864
7/03	10,376	144,842	2,117	68,468	7,832	157,879	0	0	0	0	20,325	371,189
7/04	7,911	152,753	1,281	69,749	4,351	162,230	0	0	0	0	13,543	384,732
7/05	3,097	155,850	839	70,588	1,910	164,140	0	0	0	0	5,846	390,578
7/06	6,548	162,398	762	71,350	3,392	167,532	0	0	0	0	10,702	401,280
7/07	12,049	174,447	1,845	73,195	7,703	175,235	76	76	0	0	21,673	422,953
7/08	48,281	222,728	3,337	76,532	18,750	193,985	0	76	347	347	70,715	493,668
7/09	24,353	247,081	1,869	78,401	5,325	199,310	0	76	0	347	31,547	525,215
7/10	5,606	252,687	1,096	79,497	2,097	201,407	0	76	378	725	9,177	534,392

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Table 6. (p 2 of 3)

Date	Sockeye		Chinook		Chum		Pink		Coho		Total	
	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
7/11	8,590	261,277	1,444	80,941	2,989	204,396	0	76	585	1,310	13,608	548,000
7/12	3,930	265,207	962	81,903	1,639	206,035	0	76	244	1,554	6,775	554,775
7/13	1,780	266,987	516	82,419	819	206,854	0	76	99	1,653	3,214	557,989
7/14	1,231	268,218	261	82,680	507	207,361	0	76	67	1,720	2,066	560,055
7/15	1,088	269,306	223	82,903	449	207,810	0	76	57	1,777	1,817	561,872
7/16	1,453	270,759	332	83,235	638	208,448	0	76	77	1,854	2,500	564,372
7/17	1,230	271,989	255	83,490	523	208,971	0	76	64	1,918	2,072	566,444
7/18	656	272,645	154	83,644	283	209,254	0	76	35	1,953	1,128	567,572
7/19	632	273,277	162	83,806	282	209,536	0	76	31	1,984	1,107	568,679
7/20	607	273,884	135	83,941	253	209,789	0	76	31	2,015	1,026	569,705
7/21	443	274,327	122	84,063	204	209,993	0	76	22	2,037	791	570,496
7/22	753	275,080	228	84,291	365	210,358	0	76	35	2,072	1,381	571,877
7/23	522	275,602	134	84,425	245	210,603	0	76	22	2,094	923	572,800
7/24	869	276,471	225	84,650	384	210,987	0	76	49	2,143	1,527	574,327
7/25	1,579	278,050	196	84,846	428	211,415	0	76	1,715	3,858	3,918	578,245
7/26	1,201	279,251	155	85,001	337	211,752	0	76	1,225	5,083	2,918	581,163
7/27	197	279,448	23	85,024	35	211,787	0	76	554	5,637	809	581,972
7/28	360	279,808	24	85,048	68	211,855	0	76	581	6,218	1,033	583,005
7/29	56	279,864	31	85,079	27	211,882	0	76	1,377	7,595	1,491	584,496
7/30	70	279,934	33	85,112	35	211,917	0	76	1,750	9,345	1,888	586,384
7/31	53	279,987	28	85,140	26	211,943	0	76	1,311	10,656	1,418	587,802
8/01	34	280,021	15	85,155	10	211,953	0	76	652	11,308	711	588,513
8/02	62	280,083	36	85,191	23	211,976	0	76	1,332	12,640	1,453	589,966
8/03	46	280,129	20	85,211	11	211,987	0	76	832	13,472	909	590,875
8/04	30	280,159	10	85,221	16	212,003	0	76	716	14,188	772	591,647
8/05	315	280,474	96	85,317	197	212,200	0	76	8,274	22,462	8,882	600,529
8/06	253	280,727	103	85,420	133	212,333	0	76	6,208	28,670	6,697	607,226
8/07	78	280,805	43	85,463	36	212,369	0	76	1,791	30,461	1,948	609,174
8/08	29	280,834	12	85,475	8	212,377	0	76	559	31,020	608	609,782
8/09	31	280,865	14	85,489	8	212,385	0	76	546	31,566	599	610,381
8/10	43	280,908	17	85,506	27	212,412	0	76	1,132	32,698	1,219	611,600
8/11	70	280,978	25	85,531	46	212,458	0	76	1,892	34,590	2,033	613,633
8/12	33	281,011	9	85,540	26	212,484	0	76	999	35,589	1,067	614,700

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Table 6. (p 3 of 3)

Date	Sockeye		Chinook		Chum		Pink		Coho		Total	
	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
8/13	114	281,125	29	85,569	62	212,546	0	76	2,766	38,355	2,971	617,671
8/14	54	281,179	15	85,584	23	212,569	0	76	1,159	39,514	1,251	618,922
8/15	23	281,202	6	85,590	11	212,580	0	76	523	40,037	563	619,485
8/16	25	281,227	7	85,597	9	212,589	0	76	509	40,546	550	620,035
8/17	20	281,247	7	85,604	8	212,597	0	76	443	40,989	478	620,513
8/18	36	281,283	11	85,615	6	212,603	0	76	559	41,548	612	621,125
8/19	24	281,307	7	85,622	9	212,612	0	76	499	42,047	539	621,664
8/20	0	281,307	0	85,622	0	212,612	0	76	434	42,481	434	622,098
8/21	0	281,307	0	85,622	0	212,612	0	76	581	43,062	581	622,679
8/22	0	281,307	0	85,622	0	212,612	0	76	521	43,583	521	623,200
8/23	0	281,307	0	85,622	0	212,612	0	76	1,468	45,051	1,468	624,668
8/24	0	281,307	0	85,622	0	212,612	0	76	1,058	46,109	1,058	625,726
8/25	0	281,307	0	85,622	0	212,612	0	76	231	46,340	231	625,957
Total	281,307		85,622		212,612		76		46,340		625,957 ^a	

^a An additional 785 whitefish and 2,596 other fish (Arctic char and rainbow trout) were counted passing the sonar site in 1995.

Table 7. Sockeye salmon escapement estimates and average escapement proportions by date, Nushagak River, 1980-1995.

Date	Year																Average Proportions ^a	
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Daily	Cum.
06/04					149									0			0.01	0.01
06/05					457		0					74		0			0.02	0.04
06/06					574		0	0		2	11	126		0			0.02	0.05
06/07					591		3	0	2	4	11	94		0			0.02	0.07
06/08					622		2	0	3	3	32	80		0		36	0.02	0.08
06/09					624		3	0	11	14	145	74	0	0	5	96	0.02	0.10
06/10					450		15	0	25	19	33	114	0	0	6	140	0.01	0.12
06/11			0	253	385	19	6	0	18	9	23	79	0	0	7	64	0.02	0.13
06/12		243	0	335	254	5	15	0	5	23	15	87	0	0	5	68	0.02	0.16
06/13		457	0	454	362	42	71	0	6	25	52	75	0	0	4	104	0.03	0.19
06/14		420	120	282	787	48	76	0	4	23	37	71	0	0	12	202	0.03	0.22
06/15		323	252	437	1,440	7	32	0	106	25	149	866	0	125	10	995	0.08	0.30
06/16		573	239	297	1,528	6	37	0	185	24	117	2,360	0	1,902	442	606	0.11	0.41
06/17		1,514	614	282	3,478	4	16	332	71	78	51	836	0	3,260	951	522	0.14	0.55
06/18		972	678	306	1,380	8	14	540	50	114	43	770	0	1,119	1,239	729	0.11	0.66
06/19		893	481	292	2,519	82	112	301	41	21	47	443	915	491	2,661	798	0.13	0.79
06/20		1,247	338	790	1,544	3,124	141	217	65	64	0	677	1,132	456	1,218	437	0.18	0.98
06/21		5,134	0	606	1,019	2,616	88	115	27	361	0	860	1,811	300	647	377	0.19	1.16
06/22	352	3,426	7,133	3,385	3,030	915	119	145	28	1,082	995	1,457	1,594	224	1,830	301	0.37	1.53
06/23	476	2,490	23,182	1,653	3,475	1,698	229	154	50	1,372	5,297	3,088	951	16,939	1,415	443	0.71	2.24
06/24	528	239	39,230	5,455	11,295	369	270	740	54	3,460	1,960	10,144	999	66,906	2,703	1,430	1.63	3.88
06/25	737	0	7,133	2,890	83,644	229	1,091	3,275	8,697	15,260	1,009	11,286	1,379	24,187	2,625	9,495	2.05	5.92
06/26	1,339	0	0	3,749	54,222	419	3,392	4,456	19,752	36,432	320	10,463	20,836	20,082	2,768	24,849	2.59	8.51
06/27	1,670	195	8,916	4,125	48,318	421	4,282	2,145	15,167	24,731	355	8,926	35,478	71,399	3,354	36,906	3.25	11.76
06/28	268	1,701	21,398	9,926	14,201	305	1,583	4,039	16,237	14,893	1,540	11,075	32,522	82,675	2,779	9,701	2.65	14.41
06/29	111	3,287	14,266	4,826	18,904	908	853	16,046	5,819	3,495	1,935	29,203	14,576	36,278	1,976	8,465	2.00	16.41
06/30	3,688	6,143	16,049	7,235	44,465	1,400	946	47,423	2,392	37,613	1,604	15,961	18,597	50,751	2,089	12,221	3.38	19.79
07/01	25,625	76,193	41,014	9,534	31,261	53,282	5,874	66,559	1,466	34,028	9,858	62,496	12,759	37,845	3,143	16,971	6.17	25.96
07/02	104,306	41,641	37,447	9,224	58,296	35,792	9,468	84,275	1,708	57,488	85,624	30,292	5,701	21,457	12,185	8,510	6.84	32.79
07/03	240,530	52,501	35,664	4,781	22,133	18,234	5,414	39,477	4,345	55,416	55,341	88,577	3,239	76,757	41,736	10,376	7.35	40.14
07/04	294,491	82,221	32,098	8,079	8,840	13,382	18,067	19,411	45,767	106,391	23,207	100,822	19,927	66,723	51,759	7,911	8.63	48.78
07/05	222,282	223,247	30,314	28,917	37,884	13,210	34,648	9,143	42,967	15,922	8,977	35,766	22,121	44,078	23,759	3,097	7.58	56.36
07/06	97,701	150,089	37,447	10,492	55,571	16,440	44,969	5,523	10,097	14,731	34,852	4,094	63,871	25,266	22,208	6,548	5.71	62.07
07/07	54,034	25,267	23,182	7,959	15,876	12,124	57,760	5,930	11,032	19,106	314,041	2,228	71,122	14,559	22,030	12,049	6.56	68.63
07/08	23,484	22,271	24,965	8,792	14,680	21,881	46,419	18,647	11,348	12,635	56,812	1,641	36,090	12,452	18,918	48,281	4.70	73.33
07/09	9,973	22,068	5,350	6,926	14,618	19,258	41,217	22,710	52,969	5,812	10,124	1,306	12,242	6,289	30,097	24,353	3.67	77.00
07/10	9,223	42,360	7,133	5,818	15,366	10,439	104,907	2,918	57,393	9,242	4,864	1,809	9,580	4,837	128,121	5,606	4.62	81.62
07/11	4,603	22,629	14,266	3,063	5,264	6,703	144,139	1,025	57,062	3,442	2,752	3,342	89,913	2,764	22,288	8,590	3.93	85.55
07/12	4,355	12,296	8,916	3,059	3,175	8,538	125,352	1,370	85,645	12,543	7,528	4,810	173,110	2,678	11,051	3,930	4.70	90.26
07/13	4,519	6,774	12,482	2,338	1,465	5,459	68,323	1,095	11,291	4,313	6,579	2,073	17,703	2,725	8,748	1,780	1.59	91.84
07/14	5,539	3,517	5,350	3,055	909	11,785	20,310	899	2,097	4,903	3,799	2,984	8,591	3,239	6,121	1,231	1.00	92.84
07/15	3,121	1,213	5,350	3,180	691	22,640	7,280	2,286	857	2,713	3,165	2,185	4,679	2,161	2,858	1,088	0.96	93.80

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Table 7. (p 2 of 2)

Date	Year																Average Proportions ^a	
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Daily	Cum.
07/16	2,891	343	7,133	3,018	803	12,476	17,099	2,044	888	1,946	2,129	3,716	3,525	2,436	3,451	1,453	0.85	94.65
07/17	9,681		10,699	1,546	1,912	8,491	8,942	1,932	1,891	2,692	1,953	6,206	2,895	3,824	14,088	1,230	0.99	95.64
07/18	7,883		7,133	1,739	532	7,469	3,798	2,316	1,877	4,090	1,319	7,250	1,559	1,891	11,342	656	0.82	96.46
07/19	920		16,049	1,688	393	2,708	4,005	2,121	816	1,477	845	7,552	1,417	1,803	5,247	632	0.65	97.11
07/20	1,031		5,350	1,823	671	928	2,255	2,920	1,532	1,223	883	3,914	1,433	908	4,015	607	0.42	97.53
07/21	1,084		7,133	271	966	1,616	1,820	5,435	2,286	1,294	1,206	2,408	2,016	776	3,419	443	0.43	97.96
07/22	0		5,350	280	733	1,484	878	2,197	2,219	376	2,785	3,854	825	554	2,741	753	0.34	98.30
07/23	0		7,133	326	124	1,226	2,273	1,082	442	387	3,579	2,516		501	3,081	522	0.30	98.60
07/24	0		7,133	343	368	395	3,589	1,312	639	413	3,278	575		455	2,797	869	0.28	98.88
07/25	0		1,783	424	338	1,402	1,370	886	911	277	483	16		363	6,579	1,579	0.24	99.13
07/26	0		1,783	398	286	898	2,557	896	275	148	572	15		44	6,159	1,201	0.22	99.34
07/27	0		0	395	0	658	329	832	254	75	600	16		35	6,420	197	0.14	99.49
07/28	0		0	422	0	258	847	530	208	90	788	62		23	2,058	360	0.09	99.57
07/29	0		0	429	0	42	182	400	163	84	1,204	224		27	2,440	56	0.08	99.65
07/30	0		0	275	0	36	60	462	343	177	1,220	102		28	186	70	0.04	99.70
07/31	0		0	0	0	47	205	289	645	502	763	33		21	286	53	0.04	99.73
08/01	0		0	0	0	37	248	276	410	128	130	32		45	226	34	0.02	99.75
08/02	0		0	0	0	36	0	311	0	38	138	61		35	112	62	0.01	99.76
08/03	0		0	0	0	42	663	248	0	45	735	25		18	77	46	0.02	99.79
08/04	0		0	0	0	142	322	23	0	29	188	21		33	71	30	0.01	99.80
08/05	0		0	0	0	0	178	61	285	25	1,175	13		45	121	315	0.03	99.82
08/06	0		0	0	0	0	69	103	294	35	2,993	26		23	83	253	0.04	99.87
08/07			0	0	0	0	58	50	355	38	1,788	13		181	106	78	0.03	99.90
08/08			0	0	0	0	52	20	476	0	5,030	7		82	99	29	0.06	99.96
08/09			0	0	0	18	98	8	279	0	867	9		24	40	31	0.02	99.98
08/10			0	341	0	11	193	13	140	0	0	14		0	180	43	0.02	100.00
08/11			0	152	0	6	224	8	132	0	0	17		0	121	70		
08/12			0	125	0	26	123	11	211	0	0	22		0	0	33		
08/13			0	94	0	21	195	14	71	0	236	18		0	0	114		
08/14			0	73	0	37	67	7	79	0	177	24		0	0	54		
08/15			0	76	0	10	31	12	43	0	0	25		0	0	23		
08/16			0	66	0	5	38	9	36	0	0	8		0	0	25		
08/17			0	42	0	2		10	62	0	0	3		0	0	20		
08/18			0		0	2			31	0	0	5		0	0	36		
08/19					0	2			13	0	0	2		0	3	24		
08/20					0	3			9	0	0	3		0	2	0		
08/21					0	1			15	0	0	1		0	2	0		
08/22					0				6	0	0			0	3	0		
08/23					0				5	0	0			0	2	0		
08/24					0					0	0			0	1	0		
08/25					0					0	0			0	0	0		
Total	1,138,425	815,868	539,668	179,124	594,856	324,312	802,297	390,021	483,200	515,410	682,358	494,513	697,100	717,092	511,320	283,302		

^a Average proportions for 1980 - 1994, June 4 through August 10.

Table 8. Age, sex, and size composition of sockeye salmon escapement, Nushagak River sonar project, 1995.

	Age Group									
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 1: 8 June - 4 July										
Males	27,022	11,581	26,470	4,963	24,264	1,654	1,654			97,608
Percent	17.69	7.58	17.33	3.25	15.88	1.08	1.08			63.9
Sample Size	49	21	48	9	44	3	3			177
Mean Length	423	549	441	616	571	459	573			493
Std. Error	2	12	6	8	6	26	35			3
Sample Size	48	21	48	9	44	3	3			176
Females	1,654	17,095	4,963	6,617	20,956	551	3,309			55,145
Percent	1.08	11.19	3.25	4.33	13.72	0.36	2.17			36.1
Sample Size	3	31	9	12	38	1	6			100
Mean Length	441	542	451	577	543	490	564			536
Std. Error	22	4	12	6	4		6			2
Sample Size	3	31	9	12	37	1	6			99
Both Sexes	28,676	28,676	31,433	11,580	45,220	2,205	4,963			152,753
Percent	18.77	18.77	20.58	7.58	29.6	1.44	3.25			100
Sample Size	52	52	57	21	82	4	9			277
Mean Length	424	545	443	594	558	467	567			508
Std. Error	2	6	5	5	3	26	12			2
Sample Size	51	52	57	21	81	4	9			275
Sample Period 2: 5 July - 19 August										
Males	20,087	6,829	15,467	8,637	17,877	1,004	1,205	201	201	71,508
Percent	15.63	5.31	12.03	6.72	13.91	0.78	0.94	0.16	0.16	55.62
Sample Size	100	34	77	43	89	5	6	1	1	356
Mean Length	433	573	457	612	568	516	587	546	485	511
Std. Error	4	6	6	8	4	9	33			2
Sample Size	100	34	77	42	89	5	6	1	1	355
Females	3,816	13,056	7,432	11,449	18,481	1,406	803	603		57,046
Percent	2.97	10.16	5.78	8.91	14.38	1.09	0.62	0.47		44.38
Sample Size	19	65	37	57	92	7	4	3		284
Mean Length	457	534	491	566	537	470	570	547		530
Std. Error	13	3	5	3	2	13	7	12		2
Sample Size	18	65	37	57	91	7	4	3		282
Both Sexes	23,903	19,885	22,899	20,086	36,358	2,410	2,008	804	201	128,554
Percent	18.59	15.47	17.81	15.62	28.28	1.87	1.56	0.63	0.16	100
Sample Size	119	99	114	100	181	12	10	4	1	640
Mean Length	436	547	468	586	553	489	580	547	485	519
Std. Error	4	3	5	4	2	8	20	12		1
Sample Size	118	99	114	99	180	12	10	4	1	637

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Table 8. (p 2 of 2)

	Age Group									Total
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	
All Periods Combined										
Males	47,109	18,410	41,937	13,600	42,141	2,658	2,859	201	201	169,116
Percent	16.75	6.54	14.91	4.83	14.98	0.94	1.02	0.07	0.07	60.12
Sample Size	149	55	125	52	133	8	9	1	1	533
Mean Length	427	558	447	614	570	480	579	546	485	500
Std. Error	2	8	4	6	4	16	24			2
Sample Size	148	55	125	51	133	8	9	1	1	531
Females	5,470	30,151	12,395	18,066	39,437	1,957	4,112	603		112,191
Percent	1.94	10.72	4.41	6.42	14.02	0.70	1.46	0.21		39.88
Sample Size	22	96	46	69	130	8	10	3		384
Mean Length	452	539	475	570	541	476	565	547		533
Std. Error	11	3	6	3	2	13	5	12		1
Sample Size	21	96	46	69	128	8	10	3		381
Both Sexes	52,579	48,561	54,332	31,666	81,578	4,615	6,971	804	201	281,307
Percent	18.69	17.26	19.31	11.26	29.00	1.64	2.48	0.29	0.07	100
Sample Size	171	151	171	121	263	16	19	4	1	917
Mean Length	430	546	453	589	556	479	571	547	485	513
Std. Error	2	3	4	3	2	12	10	12		1
Sample Size	169	151	171	120	261	16	19	4	1	912

Table 9. Chinook salmon escapement estimates and average escapement proportions by date, Nushagak River, 1980-1995.

Date	Year															Average Proportions ^a	
	1980	1981	1982	1983	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Daily	Cum.
06/04													443				
06/05											106		585				
06/06						1	45		2	63	164		1,116			0.24	0.24
06/07						9	153	115	4	64	118		3,486			0.59	0.83
06/08						6	158	165	3	136	119		2,000		40	0.40	1.24
06/09						11	1,676	336	14	386	121	124	846	374	172	0.49	1.72
06/10						51	1,441	916	19	151	159	105	700	351	161	0.52	2.24
06/11				118	44	41	640	873	9	108	139	110	854	375	125	0.36	2.61
06/12		1,128		156	9	82	760	186	23	94	164	140	767	413	125	0.33	2.93
06/13		2,124		212	112	318	446	205	25	241	138	1,567	484	248	193	0.53	3.46
06/14		1,951	281	131	148	297	507	143	23	166	120	1,138	442	126	409	0.45	3.91
06/15		1,500	589	204	33	101	657	1,875	25	2,468	1,214	715	215	86	3,896	1.20	5.11
06/16		2,660	557	139	24	148	366	5,078	24	1,953	4,751	1,177	3,490	6,597	2,029	2.42	7.53
06/17		909	1,432	132	14	43	2,048	1,359	138	844	2,332	2,841	4,805	13,555	1,329	2.45	9.97
06/18		584	1,583	143	20	72	2,943	874	188	712	2,008	3,607	2,170	2,687	1,143	1.49	11.46
06/19		568	1,123	136	371	424	1,407	570	64	788	1,201	852	1,284	4,565	1,444	1.18	12.64
06/20		14	790	368	2,627	789	883	1,084	109	542	923	967	1,014	2,807	1,291	1.19	13.83
06/21		56	7,836	570	3,886	525	678	613	450	1,374	1,166	1,765	568	1,475	1,190	1.64	15.48
06/22	3,975	2,056	5,746	3,180	1,755	521	724	449	1,746	10,709	1,888	1,388	433	7,989	636	3.43	18.91
06/23	5,377	3,556	6,791	1,553	3,557	188	611	781	2,712	4,692	4,199	895	10,830	5,402	976	3.82	22.74
06/24	1,463	7,500	17,239	5,124	888	274	14,082	1,279	5,876	1,729	19,352	959	8,307	3,233	1,701	5.99	28.73
06/25	2,040	11,472	4,179	2,715	380	516	10,196	6,334	2,561	890	10,207	1,047	3,964	3,377	12,525	5.32	34.05
06/26	3,707	7,049	2,612	4,388	645	643	2,340	4,292	5,973	285	7,721	8,043	3,282	4,082	16,726	5.43	39.48
06/27	4,623	5,592	1,567	4,828	1,761	999	1,296	2,481	1,257	313	3,502	4,726	5,403	1,861	6,242	3.52	43.00
06/28	3,661	1,625	1,567	11,618	1,716	750	2,215	1,980	838	264	4,555	4,428	6,410	1,315	3,175	3.42	46.42
06/29	1,524	3,140	3,134	5,649	604	405	5,444	2,486	2,167	332	10,129	5,354	2,879	1,045	2,630	3.41	49.83
06/30	1,553	3,909	5,224	8,468	907	443	2,179	1,007	1,521	283	5,290	7,036	3,499	957	3,195	3.18	53.01
07/01	1,875	2,432	5,746	5,742	9,184	128	7,369	536	395	1,428	1,884	5,534	4,790	974	3,110	3.62	56.63
07/02	4,688	21,917	5,746	5,556	15,016	181	1,612	700	417	5,317	1,081	1,704	2,845	4,378	1,888	4.91	61.54
07/03	2,702	14,789	5,224	2,880	6,527	187	3,448	1,612	6	2,350	1,326	1,207	3,370	3,319	2,117	3.45	64.99
07/04	2,777	10,517	1,045	4,866	4,291	82	1,581	3,519	1,386	1,857	2,517	2,254	2,607	2,016	1,281	3.08	68.07
07/05	2,850	5,773	4,179	4,876	4,074	782	781	3,339	2,614	724	1,431	2,563	1,772	2,319	839	2.89	70.96
07/06	2,252	3,400	4,179	1,769	5,850	1,249	399	625	2,812	1,171	1,316	3,300	1,573	2,153	762	2.44	73.39
07/07	2,052	2,214	3,657	1,342	4,023	2,256	565	684	3,861	2,579	664	1,683	1,228	1,758	1,845	2.45	75.84
07/08	602	1,028	1,567	1,482	3,217	1,990	1,922	705	2,817	10,211	518	1,482	1,530	1,463	3,337	2.94	78.78
07/09	285	1,720	2,090	1,168	2,752	2,192	1,508	0	1,104	2,301	379	1,538	1,054	1,519	1,869	1.73	80.51
07/10	784	1,880	3,134	981	2,886	1,843	235	0	1,905	1,636	398	1,243	1,037	3,061	1,096	1.71	82.22
07/11	1,284	1,880	1,567	2,351	2,192	1,111	462	0	1,059	433	791	2,568	739	1,496	1,444	1.46	83.69
07/12	917	2,049	2,612	2,347	1,222	3,891	641	2,663	6,996	643	1,397	2,774	683	1,026	962	2.67	86.36
07/13	1,010	1,103	2,090	1,794	829	1,247	502	509	2,408	619	390	1,823	555	932	516	1.30	87.66

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Table 9. (p 2 of 2)

Date	Year															Average Proportions ^a	
	1980	1981	1982	1983	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Daily	Cum.
07/14	1,108	959	2,090	2,345	1,880	1,447	407	724	1,591	447	468	1,074	627	764	261	1.29	88.95
07/15	624	934	4,702	2,440	4,016	3,045	1,074	296	2,527	179	386	725	392	411	223	1.75	90.70
07/16	662	264	1,567	755	2,000	1,166	937	307	2,070	157	543	698	455	461	332	1.00	91.70
07/17	2,689	0	2,090	387	1,718	3,097	890	653	2,186	281	838	512	533	1,016	255	1.58	93.28
07/18	5,101	0	2,090	435	1,631	1,146	1,069	648	3,628	243	953	431	321	693	154	1.62	94.89
07/19	595	0	522	422	2,389	1,176	947	282	1,420	25	1,117	317	311	295	162	0.83	95.73
07/20	0	0	1,045	456	951	936	743	529	1,828	30	637	211	208	365	135	0.67	96.40
07/21	0	0	522	361	493	738	1,399	788	1,619	51	531	177	141	303	122	0.62	97.02
07/22	0	0	1,567	373	477	398	509	766	795	114	1,245	46	73	401	228	0.54	97.56
07/23	0	0	522	435	371	288	224	89	728	127	580		106	370	134	0.30	97.86
07/24	0	0	1,045	458	119	808	269	102	1,106	131	177		99	242	225	0.41	98.27
07/25	0	0	1,500	566	522	463	168	229	748	364	19		94	403	196	0.41	98.68
07/26	0	0	2,090	597	319	618	157	91	452	208	20		27	351	155	0.38	99.06
07/27	0	0	0	592	234	1,168	158	78	317	94	18		21	317	23	0.31	99.38
07/28	0	0	0	633	104	120	90	111	372	531	62		19	74	24	0.18	99.56
07/29	0	0	0	644	29	0	68	79	327	37	244		16	47	31	0.11	99.67
07/30	0	0	0	413	17	182	77	142	517	22	207		20	29	33	0.14	99.81
07/31	0	0	0	957	27	60	51	87	1,098	12	47		9	16	28	0.19	100.00
08/01	0	0	0	660	26	50	44	95	474	0	34		11	18	15		
08/02	0	0	0	790	18	0	61	0	205	46	64		16	25	36		
08/03	0	0	0	734	24	0	47	436	362	0	31		17	9	20		
08/04	0	0	0	658	62	787	0	0	170	0	23		25	10	10		
08/05	0	0	0	55	0	381	0	0	59	0	18		33	0	96		
08/06	0	0	0	89	0	204	0	0	57	0	28		13	0	103		
08/07		0	0	83	0	87	0	0	95	0	12		101	0	43		
08/08		0	0	211	0	72	0	0	0	0	8		48	0	12		
08/09		0	0	232	0	66	0	0	0	0	11		17	0	14		
08/10		0	0	0	0	135	0	0	0	0	27		0	0	17		
08/11			0	0	0	0	0	0	0	0	28		0	0	25		
08/12			0	0	0	0	0	0	0	0	28		0	0	9		
08/13			0	0	0	0	0	0	0	0	14		0	0	29		
08/14			0	0	0	0	0	0	0	0	9		0	0	15		
08/15			0	0	0	0	0	0	0	0	8		0	0	6		
08/16			0	0	0	0	0	0	0	0	16		0	0	7		
08/17			0	0	0	0	0	0	0	0	7		0	0	7		
08/18			0		0	0	0	0	0	0	7		0	0	11		
08/19					0		0	0	0	0	3		0	0	7		
08/20					0		0	0	0	0	4		0	0	0		
08/21					0		0	0	0	0	1		0	0	0		
Total	62,780	130,252	126,438	103,767	98,991	43,434	84,309	56,905	78,302	63,955	104,351	82,848	97,812	95,954	85,622		

a Average Proportions for 1983, 1985 - 1995, June 6 through July 31.

Table 10. Age, sex, and size composition of chinook salmon escapement, Nushagak River sonar project, 1995.

	Age Group						Total
	1.1	0.3	1.2	1.3	1.4	1.5	
Sample Period: 8 June - 19 August							
Males	904	226	14,006	6,326	13,555	452	35,469
Percent	1.06	0.26	16.36	7.39	15.83	0.53	41.43
Sample Size	4	1	62	28	60	2	157
Mean Length	366	810	564	702	882	939	712
Std. Error	7		8	13	11	32	6
Sample Size	4	1	62	28	60	2	157
Females			20,106	7,229	22,366	452	50,153
Percent			23.48	8.44	26.12	0.53	58.57
Sample Size			89	32	99	2	222
Mean Length			564	719	860	950	722
Std. Error			6	20	6	40	5
Sample Size			89	32	99	2	222
Both Sexes	904	226	34,112	13,555	35,921	904	85,622
Percent	1.06	0.26	39.84	15.83	41.95	1.06	100
Sample Size	4	1	151	60	159	4	379
Mean Length	366	810	564	711	869	944	718
Std. Error	7		5	12	6	25	4
Sample Size	4	1	151	60	159	4	379

Table 11. Sex composition of age-1.2 chinook salmon escapement, Nushagak River sonar project, 1988-1995.

Year		Male	Female	Total	Source
1988	Sample Size	8	2	10	Bue (1988b)
	Percent	80.0	20.0	100.0	
1989	Sample Size	19	4	23	Woolington and Bue (1989)
	Percent	82.6	17.4	100.0	
1990	Sample Size	29	28	57	Woolington (<i>in press</i>)
	Percent	50.9	49.1	100.0	
1991	Sample Size	8	2	10	Woolington and Miller (1992)
	Percent	80.0	20.0	100.0	
1992	Sample Size	113	50	163	Miller et al. (1994a)
	Percent	69.3	30.7	100.0	
1993	Sample Size	108	36	144	Miller et al. (1994b)
	Percent	75.0	25.0	100.0	
1994	Sample Size	76	47	123	Miller (1995)
	Percent	61.8	38.2	100.0	
1995	Sample Size	62	89	151	
	Percent	41.1	58.9	100.0	

Table 12. Chum salmon escapement estimates and average escapement proportion by date, Nushagak River, 1980-1995.

Date	Year																Average Proportions ^a	
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Daily	Cum.
06/04					100									187			0.06	0.06
06/05					305		0					110		195			0.05	0.11
06/06					383		1	9		2	35	183		664			0.07	0.18
06/07					394		8	19	65	128	36	144		937			0.08	0.26
06/08					415		5	22	94	149	88	124		627		88	0.07	0.33
06/09					416		6	152	205	103	322	119	253	477	362	258	0.09	0.43
06/10					300		37	150	545	112	94	170	275	304	255	324	0.10	0.52
06/11			0	0	257	3	8	63	501	11	66	124	178	393	367	175	0.06	0.58
06/12		364	0	0	289	0	25	127	112	31	51	135	245	281	442	186	0.06	0.65
06/13		686	0	0	328	9	139	68	123	44	149	117	2,377	170	318	293	0.13	0.77
06/14		630	100	0	524	17	166	53	85	106	104	112	1,719	176	183	595	0.12	0.90
06/15		485	210	0	960	6	79	57	2,650	71	2,191	1,211	993	170	213	3,125	0.34	1.24
06/16		859	199	0	1,018	4	80	37	5,774	127	1,691	3,354	2,308	1,878	5,901	1,884	0.65	1.90
06/17		330	512	0	331	2	40	786	1,839	127	747	1,169	6,097	2,786	20,237	1,472	0.79	2.69
06/18		212	565	0	1,380	1	25	1,313	1,241	180	618	1,024	7,379	1,213	6,514	1,757	0.56	3.25
06/19		162	401	0	504	66	245	751	924	48	665	627	2,014	659	15,354	1,967	0.52	3.77
06/20		95	282	0	309	6,283	220	553	1,579	103	1,627	941	2,552	605	7,312	1,275	0.60	4.37
06/21		391	3,895	487	29	3,209	126	274	764	1,377	4,766	1,190	4,256	422	4,009	1,111	0.66	5.02
06/22	704	3,084	3,895	2,718	19	1,414	235	357	666	4,053	61,168	2,159	3,587	336	27,174	818	2.30	7.32
06/23	953	2,845	1,948	1,327	2,824	2,846	509	394	1,181	5,035	13,549	4,678	2,177	8,003	18,933	1,168	1.52	8.84
06/24	2,072	239	7,790	4,380	7,530	703	757	8,520	1,549	12,896	5,180	37,121	2,302	21,400	16,333	3,151	3.21	12.05
06/25	2,890	1,275	5,194	2,321	13,207	310	6,649	24,484	37,375	13,309	2,668	13,765	2,926	7,538	15,897	22,478	4.86	16.91
06/26	5,252	2,106	14,282	2,939	26,651	531	7,461	9,730	24,871	37,152	787	12,980	70,205	5,265	17,462	50,089	6.92	23.83
06/27	6,550	715	12,335	3,235	23,750	1,354	9,871	4,533	6,206	19,834	942	10,142	30,632	23,140	9,175	18,394	4.39	28.22
06/28	5,001	454	10,387	7,783	67,031	1,306	12,630	8,737	6,181	11,501	152	12,072	16,697	23,874	7,725	7,509	4.86	33.08
06/29	2,081	876	1,948	3,784	89,225	347	6,843	2,225	1,784	12,653	190	20,662	12,895	5,421	5,530	6,426	3.62	36.71
06/30	1,229	1,117	7,790	5,673	17,242	541	7,480	16,250	750	14,558	137	11,025	15,892	9,468	5,566	8,561	3.30	40.01
07/01	3,750	2,432	9,738	1,733	10,212	18,749	2,843	26,278	551	17,800	37,878	5,882	11,160	10,034	7,442	10,535	4.53	44.54
07/02	8,204	9,497	7,141	1,677	8,093	27,024	4,135	12,608	556	23,527	28,403	4,831	9,766	7,751	46,488	6,408	4.84	49.37
07/03	27,026	6,655	21,424	869	17,438	9,186	2,117	5,688	1,607	25,766	23,937	20,793	5,105	16,516	16,785	7,832	4.73	54.10
07/04	60,317	2,868	6,492	1,469	6,965	6,889	2,568	2,335	8,898	35,698	6,148	57,022	3,530	19,039	11,018	4,351	5.14	59.24
07/05	59,845	4,556	5,194	8,238	11,430	6,848	7,630	1,246	7,069	11,076	2,364	17,481	3,769	6,358	16,547	1,910	4.06	63.30
07/06	36,136	4,642	2,597	2,989	4,015	8,293	3,154	472	2,746	9,763	19,729	1,546	6,620	4,392	8,063	3,392	2.70	66.00
07/07	12,312	32,159	3,246	2,267	9,355	6,201	1,128	440	2,981	12,403	19,224	936	13,819	2,819	7,176	7,703	3.61	69.60
07/08	6,021	10,964	9,089	2,505	7,234	7,338	4,644	1,311	3,053	7,878	28,154	739	5,901	2,712	5,729	18,750	3.13	72.74
07/09	3,989	4,872	3,895	1,973	3,765	6,601	5,551	2,532	1,135	7,435	6,448	559	3,023	4,578	14,793	5,325	1.94	74.68
07/10	2,755	11,948	7,141	1,657	2,561	5,348	11,008	574	6,152	11,640	10,333	780	2,362	3,690	22,801	2,097	2.66	77.34
07/11	4,817	6,383	8,440	3,205	2,507	4,401	8,089	301	6,382	6,060	3,337	1,366	19,174	2,098	6,060	2,989	2.29	79.63
07/12	6,189	6,149	8,440	3,201	0	1,178	27,386	333	24,133	16,412	2,854	1,706	14,505	1,612	3,270	1,639	3.44	83.07
07/13	4,895	7,877	9,089	2,447	932	746	7,314	295	5,310	5,646	2,472	1,580	6,202	1,600	2,667	819	1.72	84.79
07/14	4,431	6,180	2,597	3,198	578	1,596	2,138	258	840	5,343	1,035	2,223	3,027	2,696	2,369	507	1.12	85.91
07/15	2,496	7,187	2,597	3,327	440	18,524	4,709	540	368	6,137	564	1,646	1,603	1,995	1,117	449	1.63	87.54

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Table 12. (p 2 of 2)

Date	Year																Average Proportions ^a	
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Daily	Cum.
07/16	3,572	2,030	2,597	2,910	511	10,549	5,500	552	379	4,551	436	2,752	1,351	2,263	1,340	638	1.21	88.75
07/17	14,521		3,895	1,491	1,217	4,898	2,933	509	756	5,902	612	4,559	1,225	3,409	5,197	523	1.28	90.04
07/18	31,534		7,141	1,677	5,322	4,215	1,223	606	667	9,144	496	5,325	614	1,719	2,675	283	1.67	91.70
07/19	3,680		5,843	1,628	4,716	20,261	1,284	650	296	3,366	651	5,615	550	1,644	900	282	1.42	93.13
07/20	4,122		8,440	1,758	1,343	5,744	1,481	1,037	531	4,094	702	2,938	548	878	750	253	0.97	94.09
07/21	4,334		2,597	1,174	3,381	5,687	1,136	1,876	742	4,173	1,011	1,876	755	720	606	204	0.81	94.91
07/22	0		1,948	1,214	2,565	5,002	695	954	728	1,375	2,313	3,217	290	494	679	365	0.61	95.52
07/23	0		1,298	1,413	62	4,338	752	561	913	1,371	2,872	1,973		475	769	245	0.54	96.06
07/24	0		2,597	1,488	184	1,403	1,178	690	1,258	1,322	2,703	471		433	688	384	0.49	96.55
07/25	0		2,597	1,839	169	358	661	513	1,985	891	2,641	67		359	1,652	428	0.47	97.03
07/26	0		2,597	1,989	143	219	161	564	797	510	2,495	68		13	1,759	337	0.39	97.42
07/27	0		2,597	1,974	117	160	354	480	723	317	2,265	73		15	1,828	35	0.37	97.79
07/28	0		1,948	2,109	74	71	120	341	691	375	4,130	256		13	642	68	0.37	98.16
07/29	0		649	2,146	159	20	0	259	525	249	601	978		8	114	27	0.24	98.40
07/30	0		649	1,377	239	11	922	303	1,054	483	525	376		9	173	35	0.24	98.65
07/31	0		649	957	663	18	305	180	1,602	1,279	318	153		10	196	26	0.22	98.86
08/01	0		0	660	0	18	0	190	1,102	375	447	161		29	218	10	0.12	98.99
08/02	0		3,246	790	0	12	0	174	489	126	46	334		10	102	23	0.19	99.18
08/03	0		0	734	0	16	0	142	436	0	269	149		11	44	11	0.08	99.26
08/04	0		0	658	258	43	641	161	156	0	557	123		12	40	16	0.11	99.37
08/05	0		0	73	0	122	310	478	205	0	828	79		15	38	197	0.08	99.45
08/06	0		0	118	0	174	155	686	170	0	3,290	159		10	40	133	0.14	99.59
08/07			0	110	0	110	80	260	248	0	1,863	92		126	123	36	0.09	99.68
08/08			0	281	0	472	65	101	945	62	5,102	48		60	53	8	0.21	99.89
08/09			0	309	0	445	62	45	175	568	896	61		16	2	8	0.08	99.97
08/10			0	0	0	172	141	47	0	549	0	70		0	13	27	0.03	100.00
08/11			0	0	0	206	58	31	0	136	0	82		0	473	46		
08/12			0	0	0	487	0	19	0	0	0	122		0	33	26		
08/13			0	0	0	260	0	21	0	0	297	114		0	16	62		
08/14			0	0	0	511	0	23	0	0	199	166		0	17	23		
08/15			0	0	0	231	0	38	0	0	47	177		0	14	11		
08/16			0	0	0	145	0	37	0	0	16	32		0	10	9		
08/17			0	0	0	71	0	30	0	0	97	13		0	11	8		
08/18			0		0	54			0	0	97	25		0	8	6		
08/19					0	54			0	0	68	12		0	21	9		
08/20					0	41			0	0	0	13		0	17	0		
08/21					0	9			0	0	0	4		0	26	0		
08/22					0				0	0	0			0	25	0		
08/23					0				0	0	0			0	16	0		
08/24					0					0	0			0	12	0		
08/25					0					0	0			0	1	0		
Total	331,678	143,324	230,141	106,279	362,369	214,481	168,276	147,433	186,418	377,512	329,793	287,281	302,858	217,230	378,928	212,612		

^a Average proportions for 1980 - 1995, June 4 through August 10.

Table 13. Age, sex, and size composition of chum salmon escapement, Nushagak River sonar project, 1995.

	Age Group				
	0.2	0.3	0.4	0.5	Total
Sample Period: 8 June - 19 August					
Males	4,369	52,425	54,852	9,708	121,354
Percent	2.05	24.66	25.8	4.57	57.08
Sample Size	9	108	113	20	250
Mean Length	553	587	606	600	595
Std. Error	9	3	3	6	2
Sample Size	9	107	113	20	249
Females	5,340	41,745	35,921	8,252	91,258
Percent	2.51	19.63	16.9	3.88	42.92
Sample Size	11	86	74	17	188
Mean Length	509	546	565	575	554
Std. Error	8	2	3	9	2
Sample Size	11	86	73	17	187
Both Sexes	9,709	94,170	90,773	17,960	212,612
Percent	4.57	44.29	42.69	8.45	100
Sample Size	20	194	187	37	438
Mean Length	529	569	589	589	577
Std. Error	6	2	2	5	1
Sample Size	20	193	186	37	436

Table 14. Pink salmon escapement estimates and average escapement proportions by date
Nushagak River, 1980-1994.

Date	Year							Average Proportion ^a	
	1980	1982	1984	1986	1988	1990	1994	Daily	Cum.
07/01	0	0	0	0	0	0	0	0.00	0.00
07/02	0	0	549	0	0	0	0	0.00	0.00
07/03	0	0	0	0	0	0	121	0.01	0.01
07/04	0	0	0	0	0	0	0	0.00	0.01
07/05	0	0	0	0	0	0	258	0.02	0.03
07/06	0	0	0	0	0	0	0	0.00	0.03
07/07	0	0	0	0	0	0	0	0.00	0.03
07/08	0	0	0	0	0	0	0	0.00	0.03
07/09	0	0	0	0	227	0	672	0.06	0.09
07/10	0	0	0	0	134	0	2,340	0.18	0.27
07/11	0	0	251	0	191	0	335	0.03	0.30
07/12	0	0	794	0	0	0	268	0.03	0.33
07/13	0	0	266	0	0	0	256	0.02	0.35
07/14	0	3,216	165	215	304	179	262	0.11	0.46
07/15	0	3,216	126	0	107	72	151	0.05	0.51
07/16	0	3,216	146	1,809	113	63	172	0.41	0.92
07/17	0	3,216	348	0	275	112	194	0.06	0.98
07/18	1,855	12,864	6,386	0	331	97	168	0.25	1.23
07/19	216	9,648	7,859	0	140	106	562	0.21	1.44
07/20	1,600	12,864	18,126	356	279	110	570	0.43	1.87
07/21	2,300	19,297	31,880	255	451	151	365	0.59	2.45
07/22	2,996	19,297	24,188	202	432	348	1,095	0.60	3.05
07/23	5,510	35,377	23,845	4,330	4,209	447	1,206	1.76	4.81
07/24	2,161	16,081	70,605	4,363	6,170	410	1,059	1.88	6.69
07/25	3,100	61,106	64,968	2,384	8,514	665	2,432	2.10	8.80
07/26	4,999	25,729	54,894	625	14,669	676	3,288	1.61	10.41
07/27	10,475	196,182	66,214	1,239	13,728	647	3,507	3.67	14.07
07/28	21,782	93,267	41,567	6,853	9,722	1,053	14,964	4.60	18.68
07/29	22,057	109,347	89,976	7,728	7,873	17,893	6,889	4.95	23.63
07/30	32,754	109,347	134,987	8,620	17,365	17,770	32,461	7.94	31.57
07/31	18,992	147,941	119,383	4,297	38,549	11,070	16,177	6.27	37.83
08/01	115,186	173,669	137,574	4,828	23,238	32,017	32,832	10.45	48.28
08/02	61,476	118,996	158,472	7,738	32,460	39,470	16,842	8.44	56.72
08/03	120,802	67,538	104,080	6,589	55,663	64,515	2,644	8.88	65.60
08/04	75,708	54,674	97,528	3,878	60,774	86,613	2,380	7.52	73.12
08/05	26,757	38,593	79,075	1,883	19,695	193,407	6,886	6.60	79.72
08/06	21,750	9,648	96,630	1,064	17,049	90,081	6,417	4.19	83.91
08/07		3,216	113,159	386	23,977	76,456	9,052	3.70	87.62
08/08		9,648	83,438	326	80,869	88,089	7,751	5.30	92.91

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Table 14. (p 2 of 2)

Date	Year							Average Proportion ^a	
	1980	1982	1984	1986	1988	1990	1994	Daily	Cum.
08/09		12,864	61,145	284	17,246	38,446	2,138	2.00	94.91
08/10		35,377	46,597	507	6,451	9,279	6,980	1.68	96.59
08/11		19,297	73,178	1,100	6,699	11,861	5,131	1.76	98.35
08/12			26,831	66	9,763	9,429	360	0.69	99.04
08/13			25,252	51	3,195	2,350	162	0.35	99.39
08/14			9,403	124	3,491	1,257	150	0.23	99.62
08/15			11,026	43	1,957	555	100	0.17	99.79
08/16			3,498	24	1,636	178	106	0.09	99.88
08/17			3,308	20	2,762	405	95	0.12	100.00
08/18			1,702		1,432	580	85		
08/19			1,809		706	232	360		
08/20			3,202		438	442	258		
08/21			2,731		718	353	441		
08/22			2,694		392	297	453		
08/23			2,340		216	1,137	251		
08/24			482			587	114		
08/25			2,217			462	12		
08/26						802			
08/27						289			
08/28						148			
08/29						119			
08/30						0			
08/31						0			
09/01						0			
09/02						0			
09/03						0			
09/04						0			
09/05						0			
09/06						0			
09/07						0			
09/08						0			
09/09						0			
09/10						0			
09/11						0			
09/12						0			
Total	554,456	1,426,713	1,906,878	74,173	496,598	803,715	193,766		

Table 15. Coho salmon escapement estimates and average escapement proportions by date, Nushagak River, 1982-1995.

Date	Year														Average Proportions ^a	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1,993	1994	1995	Daily	Cum.	
06/29	0	0	0	0	0	0	0	0	0	25	0	0	0	0.01	0.01	
06/30	0	0	0	0	0	0	0	0	0	17	0	0	0	0.00	0.01	
07/01	0	0	0	0	0	0	0	0	0	43	0	0	0	0.01	0.02	
07/02	0	0	0	0	0	0	0	0	0	29	0	0	0	0.01	0.03	
07/03	0	0	0	0	0	0	0	0	0	24	0	0	0	0.01	0.04	
07/04	0	0	0	0	0	0	0	0	0	63	0	0	0	0.02	0.06	
07/05	0	336	0	0	0	0	0	0	0	39	0	0	0	0.01	0.07	
07/06	0	122	0	0	0	0	0	0	0	12	0	0	0	0.00	0.07	
07/07	0	93	0	0	0	0	0	0	0	8	0	0	0	0.00	0.07	
07/08	0	102	0	0	0	0	0	0	0	9	0	0	347	0.09	0.16	
07/09	0	81	0	0	0	0	0	0	0	5	0	0	0	0.00	0.16	
07/10	0	68	0	0	0	0	0	0	0	3	0	426	378	0.15	0.31	
07/11	0	71	0	0	0	0	0	0	0	5	0	125	585	0.16	0.46	
07/12	0	71	0	0	0	0	0	0	0	6	0	112	244	0.07	0.54	
07/13	0	54	0	0	0	0	0	0	0	175	0	96	99	0.09	0.62	
07/14	0	71	0	0	0	0	0	0	0	265	0	155	67	0.11	0.74	
07/15	0	74	0	0	0	0	0	246	0	193	0	81	57	0.11	0.85	
07/16	0	0	0	0	708	0	0	172	0	329	0	103	77	0.15	0.99	
07/17	1,354	0	0	0	0	0	0	250	0	556	0	142	64	0.22	1.21	
07/18	1,354	0	532	0	0	0	0	374	0	642	0	566	35	0.35	1.57	
07/19	1,354	0	786	127	0	0	0	133	25	651	0	546	31	0.36	1.93	
07/20	1,354	0	671	73	0	177	0	670	30	333	0	458	31	0.31	2.24	
07/21	1,354	406	3,381	131	0	320	0	551	51	193	0	358	22	0.46	2.70	
07/22	2,708	420	2,565	106	0	163	0	322	114	246	0	465	35	0.40	3.10	
07/23	4,062	489	186	101	575	96	810	287	127	196	0	539	22	0.27	3.38	
07/24	10,833	515	552	33	748	118	1,166	0	131	43	0	493	49	0.24	3.62	
07/25	5,416	637	508	575	416	88	1,674	0	432	591	0	1,212	1,715	1.02	4.64	
07/26	6,771	597	429	367	234	97	1,059	0	494	620	1,427	1,843	1,225	1.29	5.93	
07/27	8,387	592	820	269	386	82	976	0	508	645	1,127	1,970	554	1.08	7.01	
07/28	9,479	633	515	106	184	58	808	0	701	2,199	752	1,996	581	1.38	8.40	
07/29	8,125	644	1,115	19	480	44	632	1,263	960	8,518	902	973	1,377	3.44	11.83	
07/30	5,416	413	1,672	15	453	52	1,326	2,362	991	3,858	1,006	466	1,750	2.43	14.27	
07/31	4,062	0	663	20	226	31	2,464	6,066	621	1,402	527	1,235	1,311	2.10	16.37	
08/01	2,708	0	632	17	914	33	1,574	1,886	2,574	1,392	864	2,874	652	1.76	18.12	
08/02	6,771	0	728	15	1,426	30	5,174	669	3,238	2,883	982	1,143	1,332	2.33	20.45	
08/03	3,300	0	478	18	8,951	24	8,513	269	1,033	1,316	611	906	832	1.71	22.16	
08/04	2,200	0	1,032	59	7,144	1,529	9,168	175	3,068	1,066	1,163	813	716	1.97	24.12	
08/05	1,354	1,212	799	4,124	3,461	4,594	6,362	150	2,701	710	1,578	2,246	8,274	4.23	28.35	
08/06	5,416	1,948	7,126	5,979	1,804	6,479	6,033	208	7,695	1,369	712	2,009	6,208	4.72	33.07	

- Continued-

Table 15. (p 2 of 2)

Date	Year													Average Proportions ^a	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1993	1994	1995	Daily	Cum.
08/07	1,354	1,819	5,191	3,900	831	2,379	7,837	227	8,062	783	4,160	2,707	1,791	4.24	37.31
08/08	1,354	4,638	695	22,181	681	917	18,480	1,625	11,915	423	1,941	2,405	559	6.66	43.97
08/09	5,416	5,105	955	7,880	636	414	5,903	17,005	2,513	530	660	1,635	546	4.68	48.65
08/10	10,833	4,435	4,321	2,908	1,362	489	7,888	17,916	8,305	683	661	9,751	1,132	6.23	54.87
08/11	51,456	1,981	2,335	3,731	4,376	320	11,607	3,778	10,354	774	364	28,753	1,892	7.48	62.35
08/12	20,312	1,629	5,235	8,459	2,009	179	11,984	13,365	8,011	1,078	696	1,922	999	5.80	68.16
08/13	13,541	1,215	5,050	4,289	1,179	193	3,359	5,738	21,355	949	811	920	2,766	4.70	72.85
08/14	20,000	944	1,881	8,554	2,106	238	3,278	2,300	13,331	1,327	846	884	1,159	3.75	76.60
08/15	27,082	982	426	4,098	728	387	2,107	1,568	5,943	1,409	1,480	706	523	2.36	78.96
08/16	8,180	855	6,995	605	362	387	1,928	704	2,382	322	1,687	590	509	1.76	80.72
08/17	7,873	552	6,616	1,286	391	302	2,852	339	6,794	141	1,049	584	443	1.92	82.64
08/18	2,653		8,938	960			1,701	350	7,238	230	813	446	559	1.97	84.61
08/19			6,872	963			1,421	795	3,450	110	9,074	1,065	499	3.75	88.36
08/20			4,880	698			799	470	2,063	124	4,151	1,012	434	2.08	90.44
08/21			5,463	156			911	352	1,301	37	1,129	1,422	581	1.29	91.73
08/22			26,267				1,016	291	1,078		693	1,492	521	3.51	95.24
08/23			15,314				291	195	864		415	708	1,468	2.37	97.61
08/24			5,782					1,275	694		342	582	1,058	1.62	99.23
08/25			4,435					282	557		119	84	231	0.77	100.00
08/26								78	808						
08/27									2,801						
08/28									2,130						
08/29									1,662						
08/30									1,458						
08/31									848						
09/01									722						
09/02									484						
09/03									602						
09/04									1,011						
09/05									831						
09/06									1,064						
09/07									1,283						
09/08									984						
09/09									1,289						
09/10									1,373						
09/11									1,512						
09/12									287						
Total	263,832	33,804	142,841	82,822	42,771	20,219	131,101	84,706	162,853	39,599	42,742	82,019	46,340		

^a Average proportions for 1984-85, 1988-91, and 1993-1995, June 29 through August 25

Table 16. Age, sex, and size composition of coho salmon escapement, Nushagak River sonar project, 1995.

	Age Group			
	1.1	2.1	3.1	Total
Sample Period: 8 July - 25 August				
Males	2,087	24,631	1,670	28,388
Percent	4.5	53.15	3.6	61.26
Sample Size	10	118	8	136
Mean Length	510	524	515	523
Std. Error	17	5	29	5
Sample Size	10	118	8	136
Females		17,326	626	17,952
Percent		37.39	1.35	38.74
Sample Size		83	3	86
Mean Length		566	596	567
Std. Error		4	10	4
Sample Size		83	3	86
Both Sexes	2,087	41,957	2,296	46,340
Percent	4.5	90.54	4.95	100
Sample Size	10	201	11	222
Mean Length	510	542	537	540
Std. Error	17	3	22	3
Sample Size	10	201	11	222

Table 17. CPUE of coho salmon caught using drift gillnets in the right and left bank inshore, offshore, and far offshore strata, Nushagak River sonar project, August 6-19, 1995.

Date	CPUE							
	Left Bank				Right Bank			
	In	Off	Far Off	Total	In	Off	Far Off	Total
8/06	3.59	2.96	0.00	6.55	8.96	3.61	1.78	14.35
8/07	1.19	0.00	0.57	1.76	1.79	0.59	0.59	2.97
8/08	0.00	0.60	0.00	0.60	0.00	3.00	0.00	3.00
8/09	0.00	0.00	0.00	0.00	1.81	0.60	0.00	2.41
8/10	0.00	0.60	0.00	0.60	1.20	4.18	0.00	5.38
8/11	2.38	0.00	0.00	2.38	3.61	0.60	0.59	4.80
8/12	0.00	0.59	0.00	0.59	2.36	0.00	0.00	2.36
8/13	0.60	1.19	0.60	2.39	16.81	2.41	0.60	19.82
8/14	0.60	0.60	0.00	1.20	2.39	1.80	0.00	4.19
8/15	0.00	0.00	0.00	0.00	0.00	1.20	0.00	1.20
8/16	0.59	0.00	0.00	0.59	0.00	0.00	0.00	0.00
8/17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/18	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.59
8/19	0.00	1.19	0.00	1.19	0.00	0.60	0.60	1.20
Total	8.95	7.73	1.17	17.85	39.52	18.59	4.16	62.27
Percent	50%	43%	7%	100%	63%	30%	7%	100%

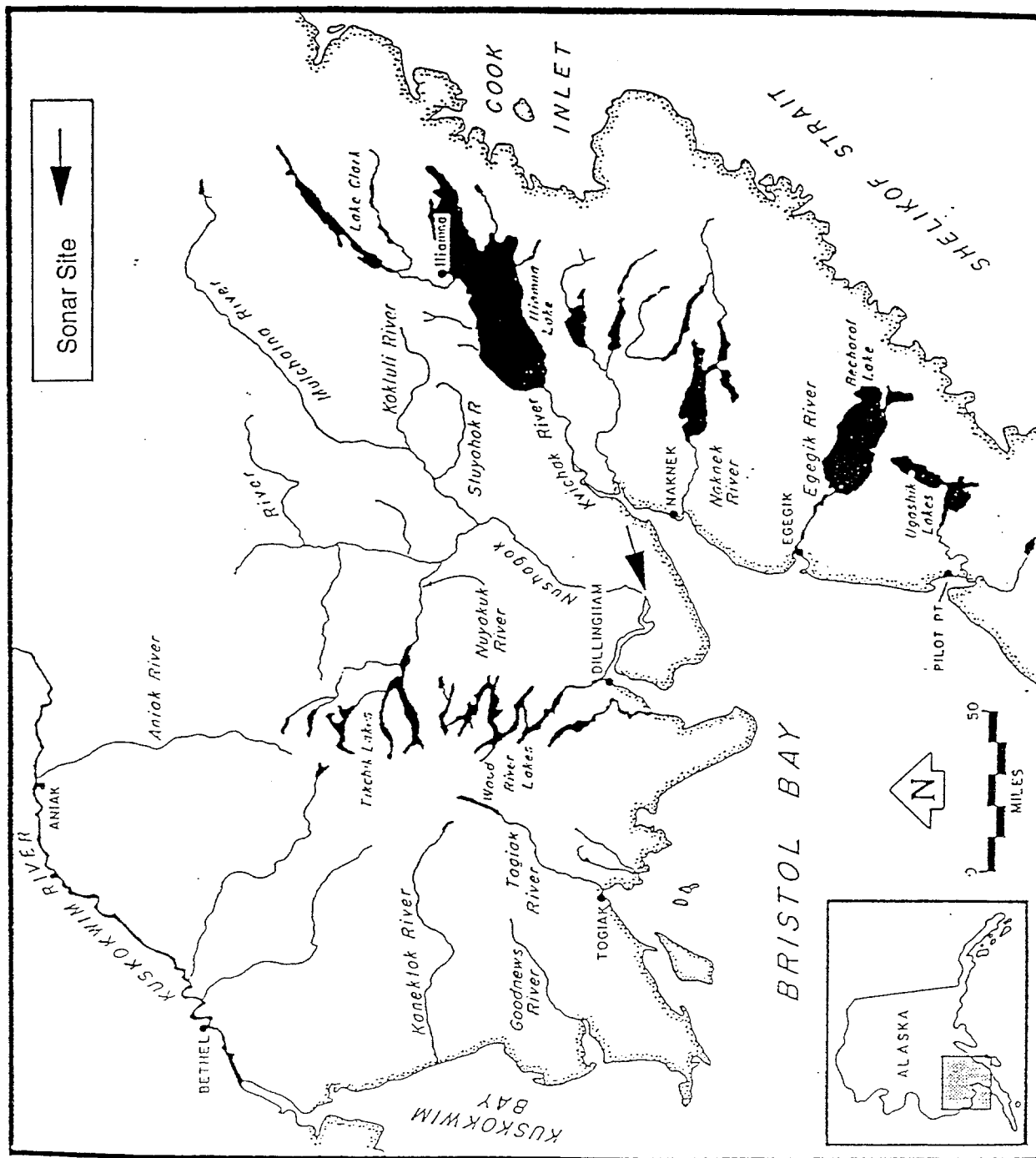


Figure 1. Bristol Bay area showing the location of the Nushagak River sonar site.

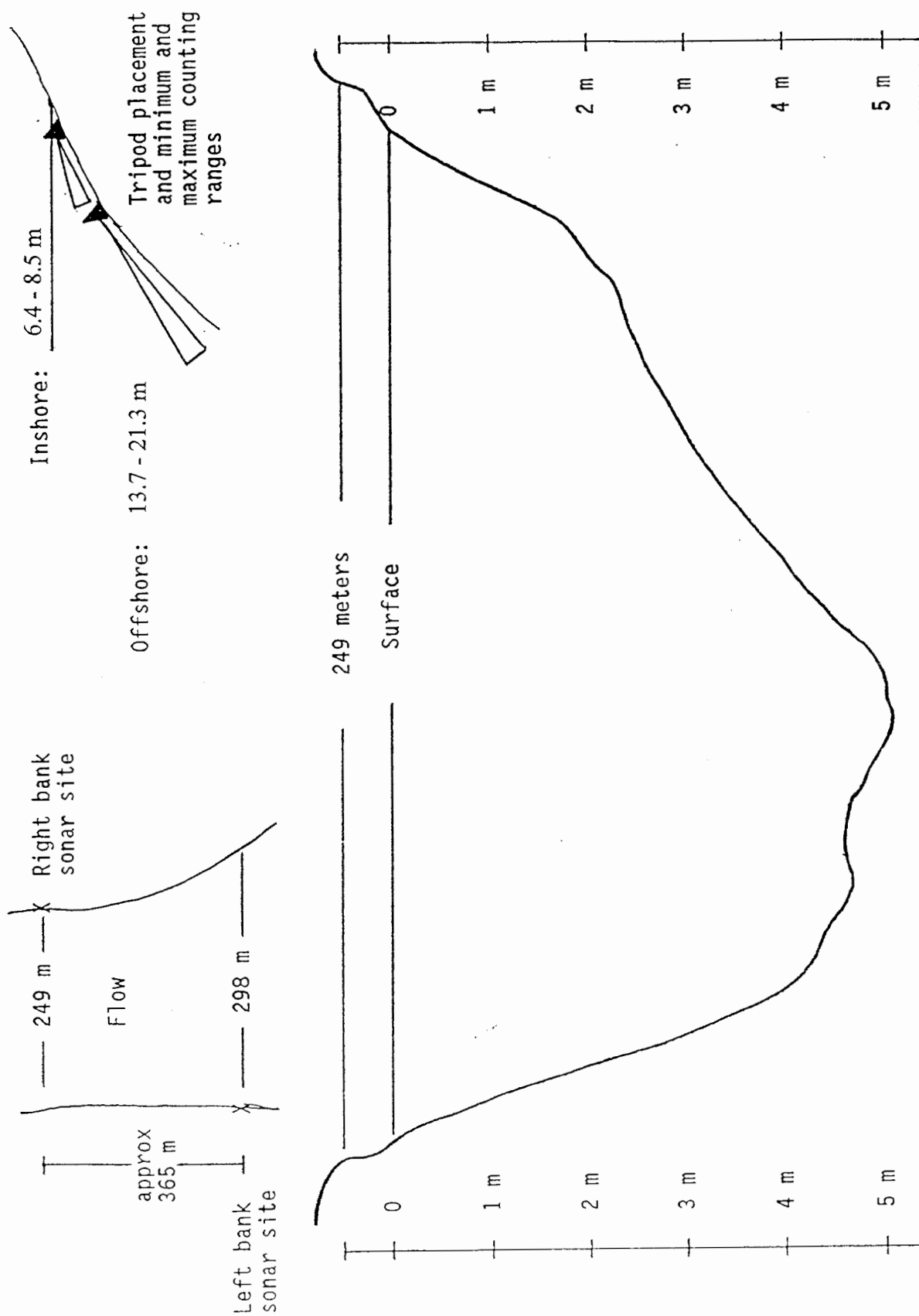


Figure 2. Detailed right bank sonar placement, relationship to left bank sonar, and bottom profile of Nushagak River at right bank sonar site, 1995.

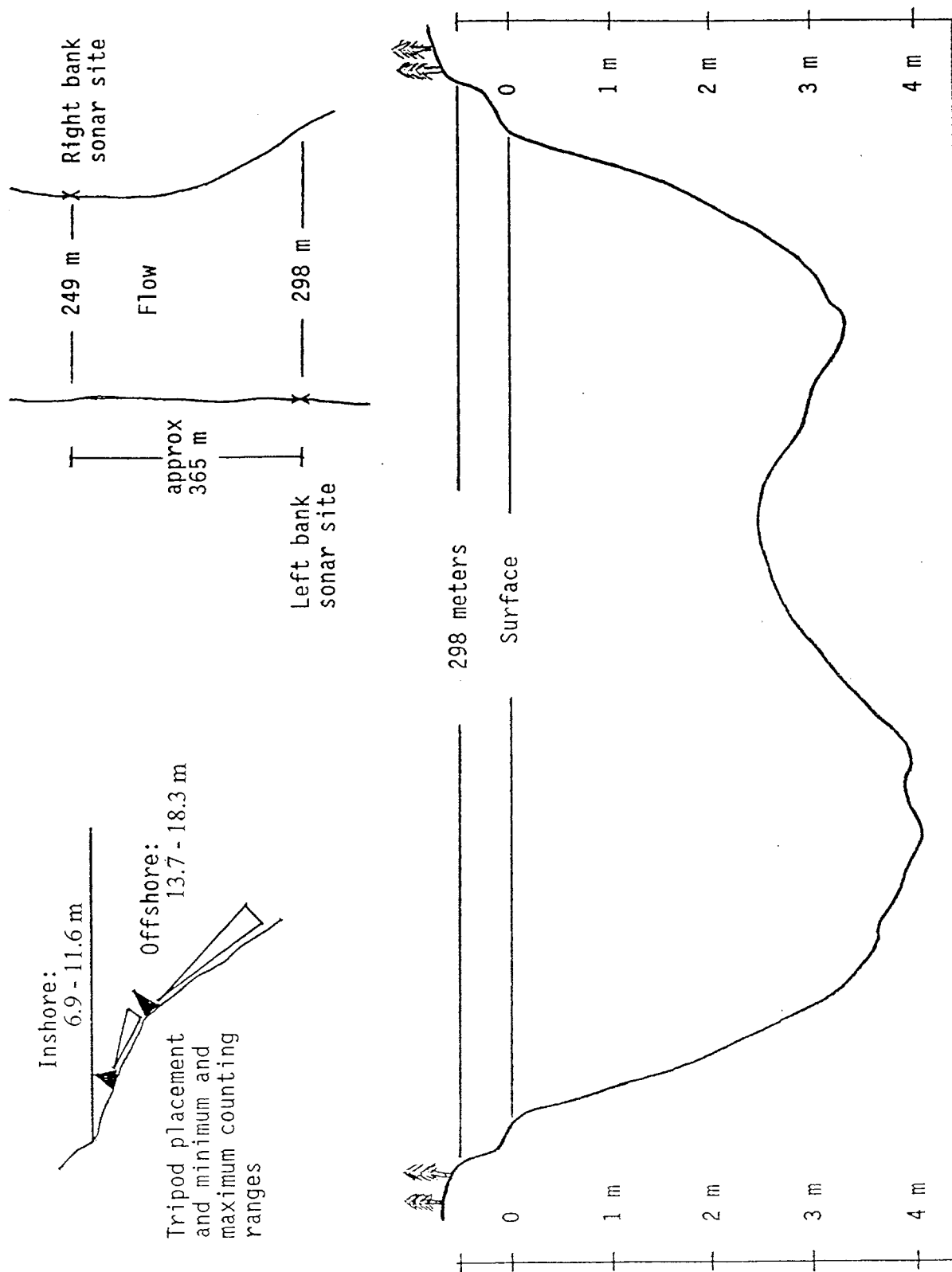


Figure 3. Detailed left bank sonar placement, relationship to right bank sonar, and bottom profile of Nushagak River at left bank sonar site, 1995.

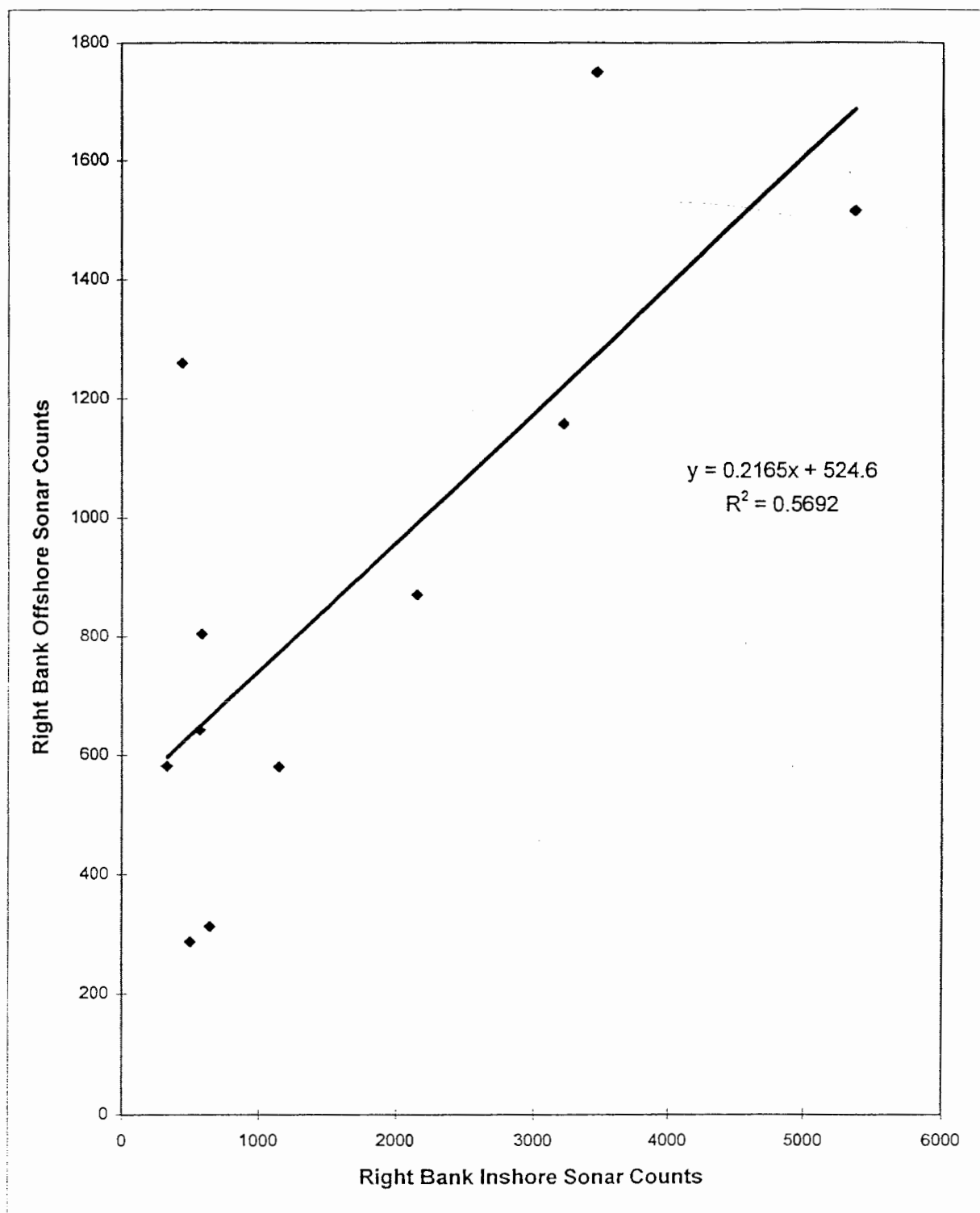


Figure 4. Regression model of the relationship of right bank inshore to offshore sonar counts (inshore counts <5,500), Nushagak River sonar project, June 20 - July 15, 1995.

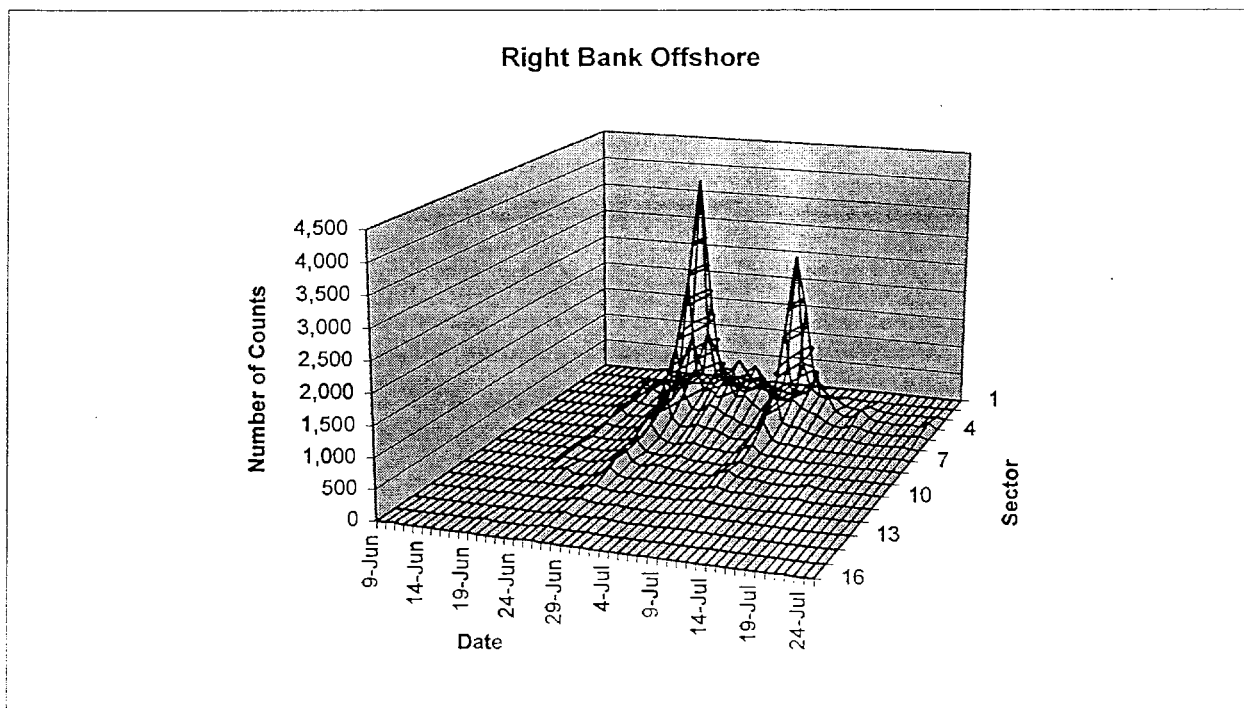
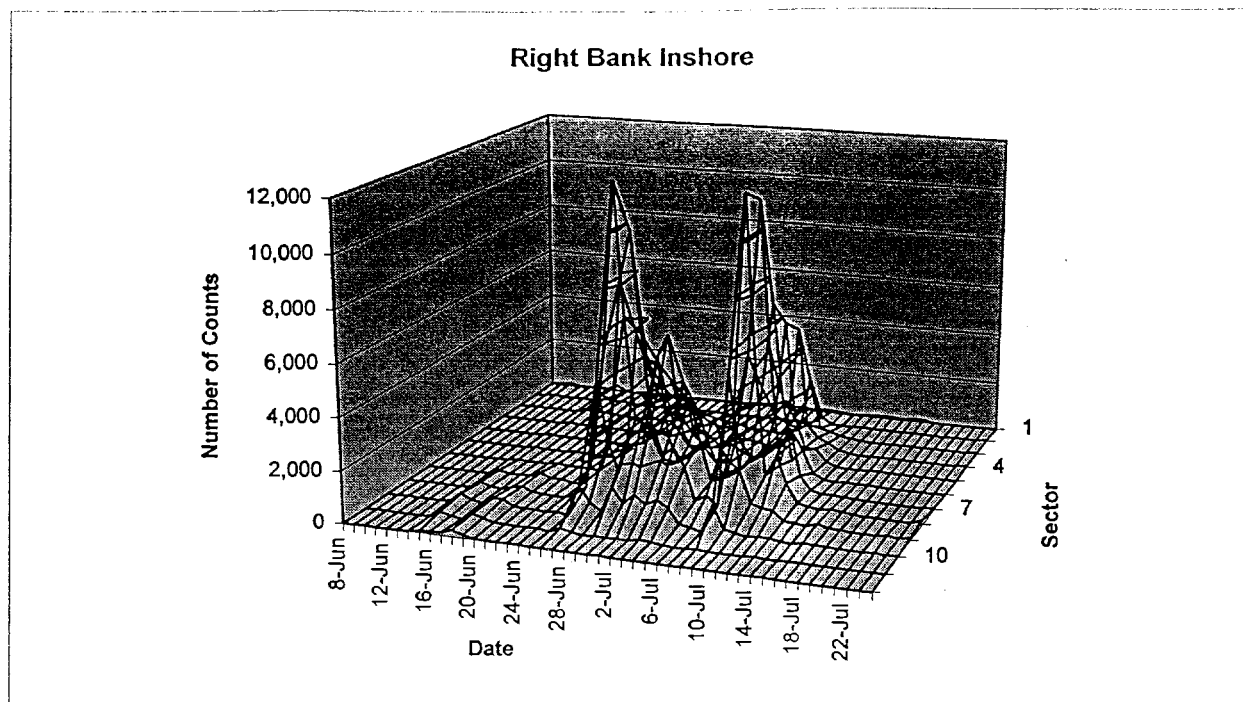


Figure 5. Number of sonar counts by sector for the right bank inshore and offshore counters, Nushagak River sonar project, June 8 - July 24, 1995.

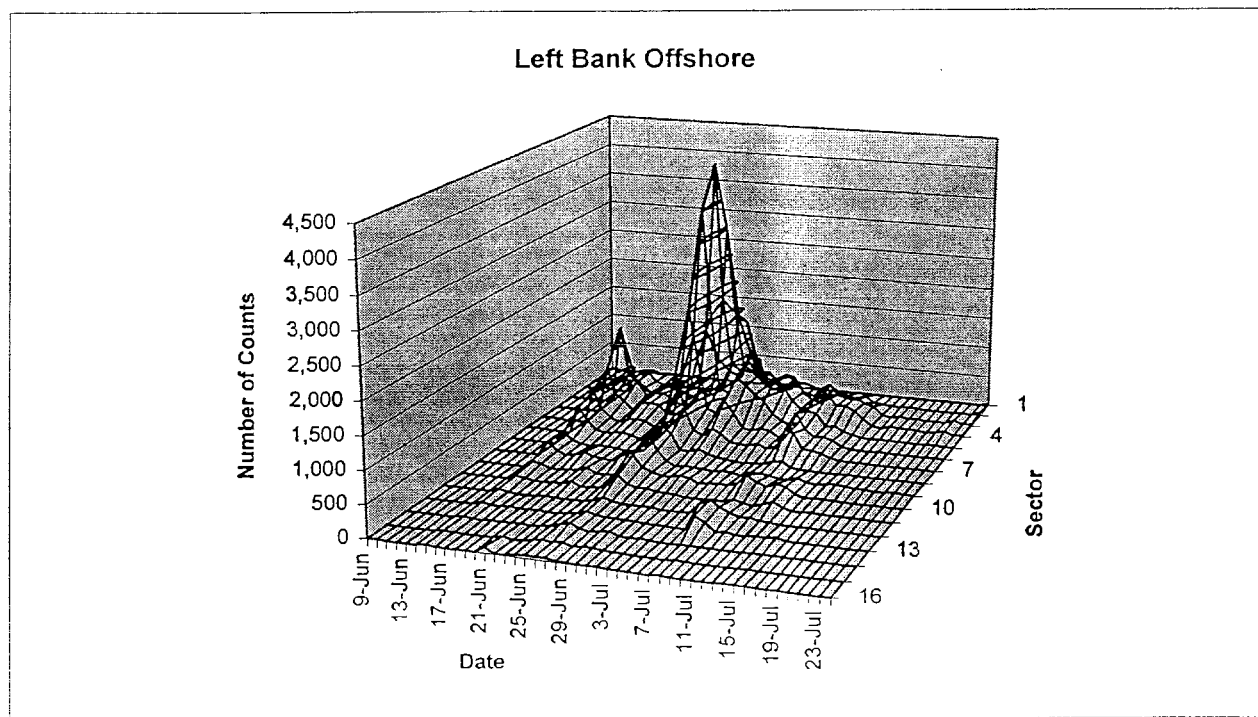
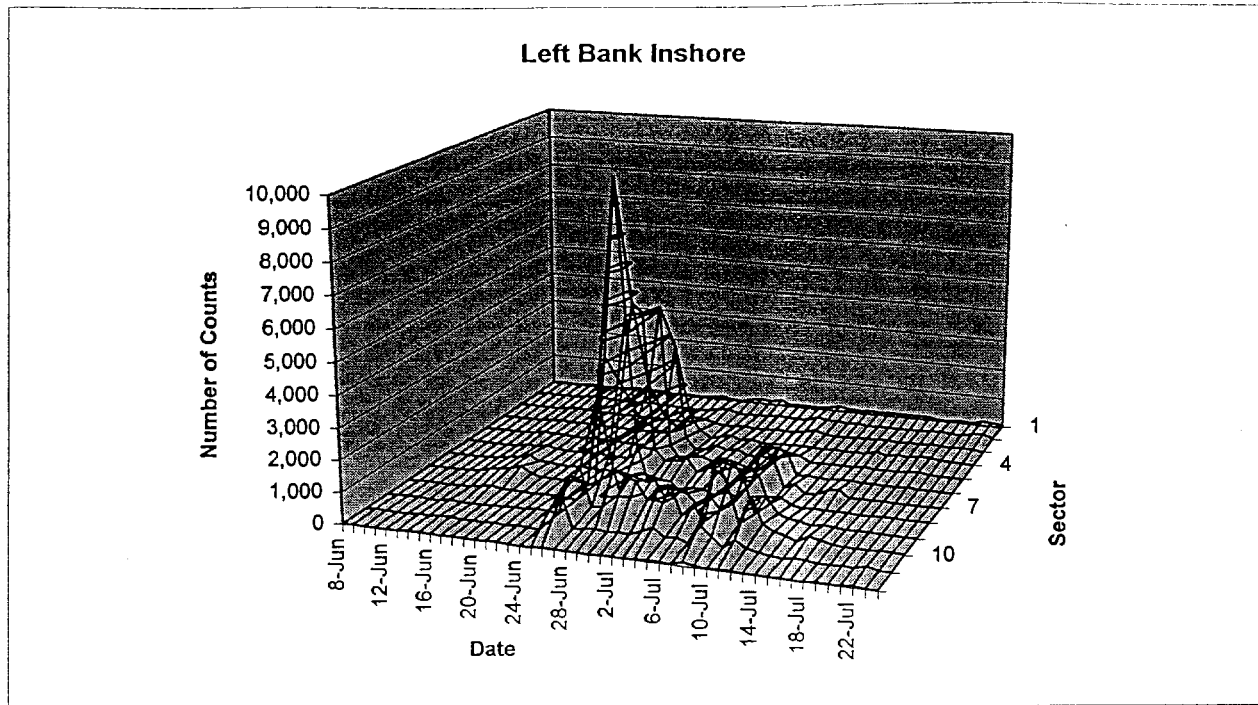


Figure 6. Number of sonar counts by sector for the left bank inshore and offshore counters, Nushagak River sonar project, June 8 - July 24, 1995.

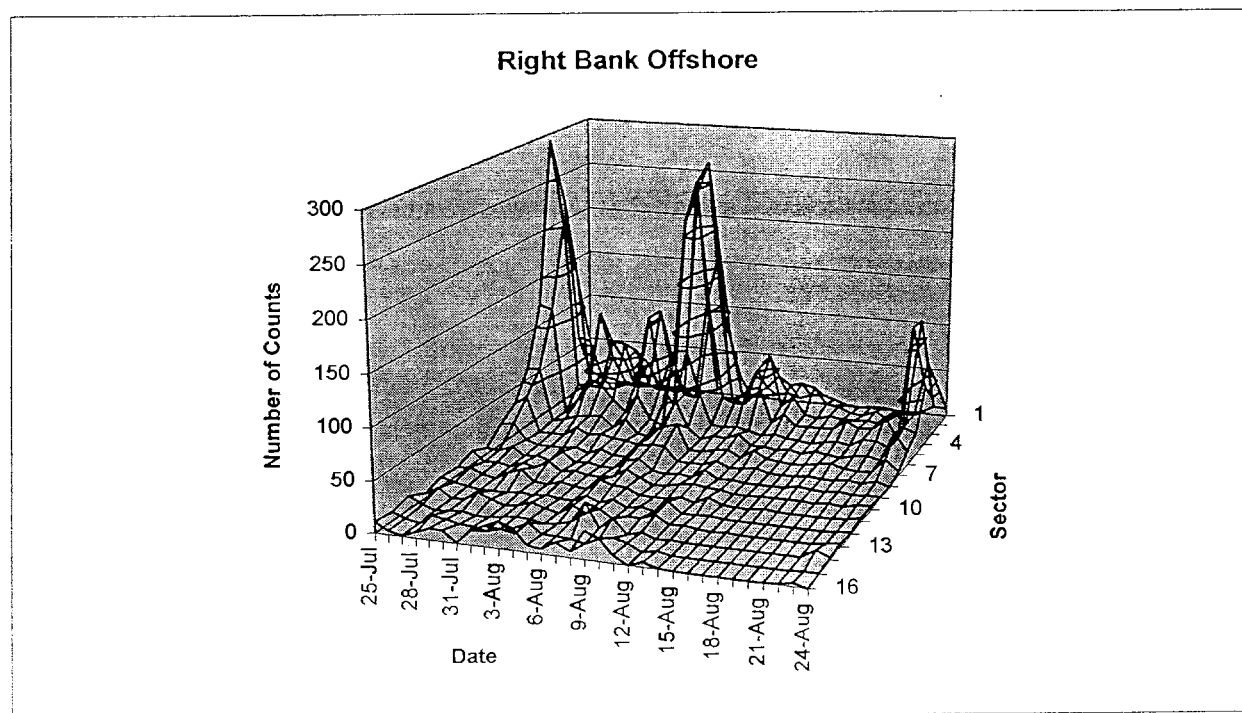
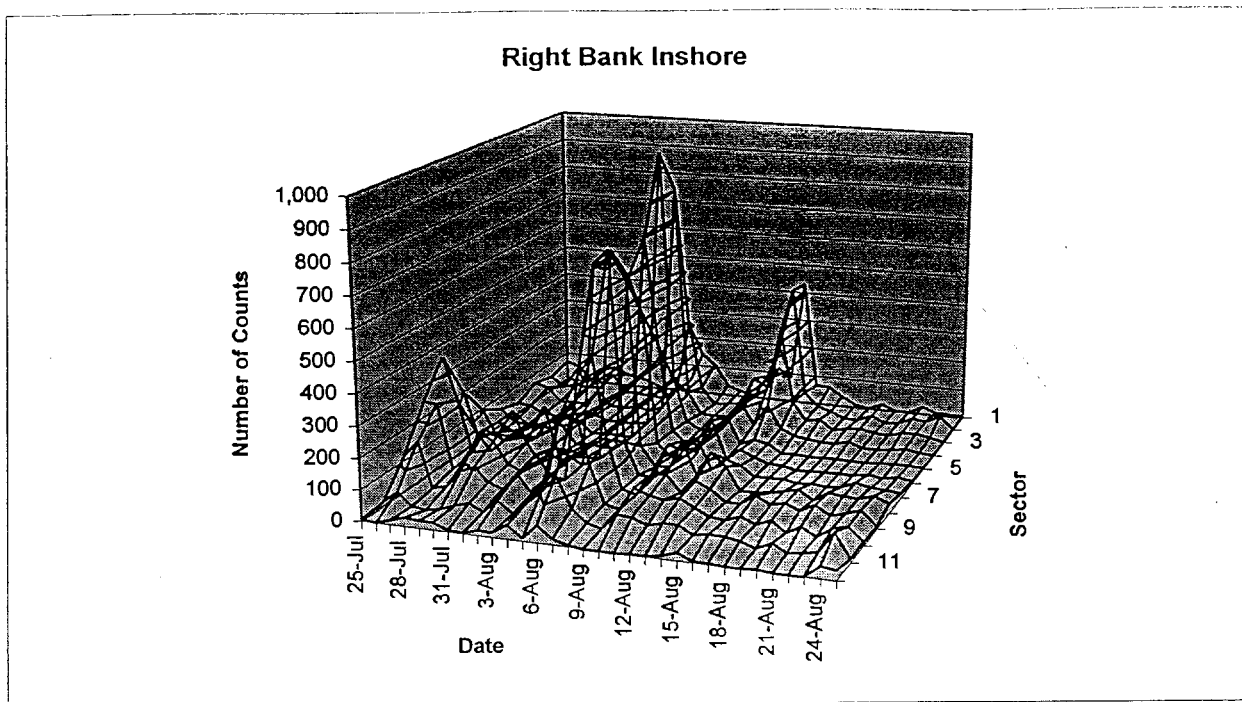


Figure 7. Number of sonar counts by sector for the right bank inshore and offshore counters, Nushagak River sonar project, July 25 - August 25, 1995.

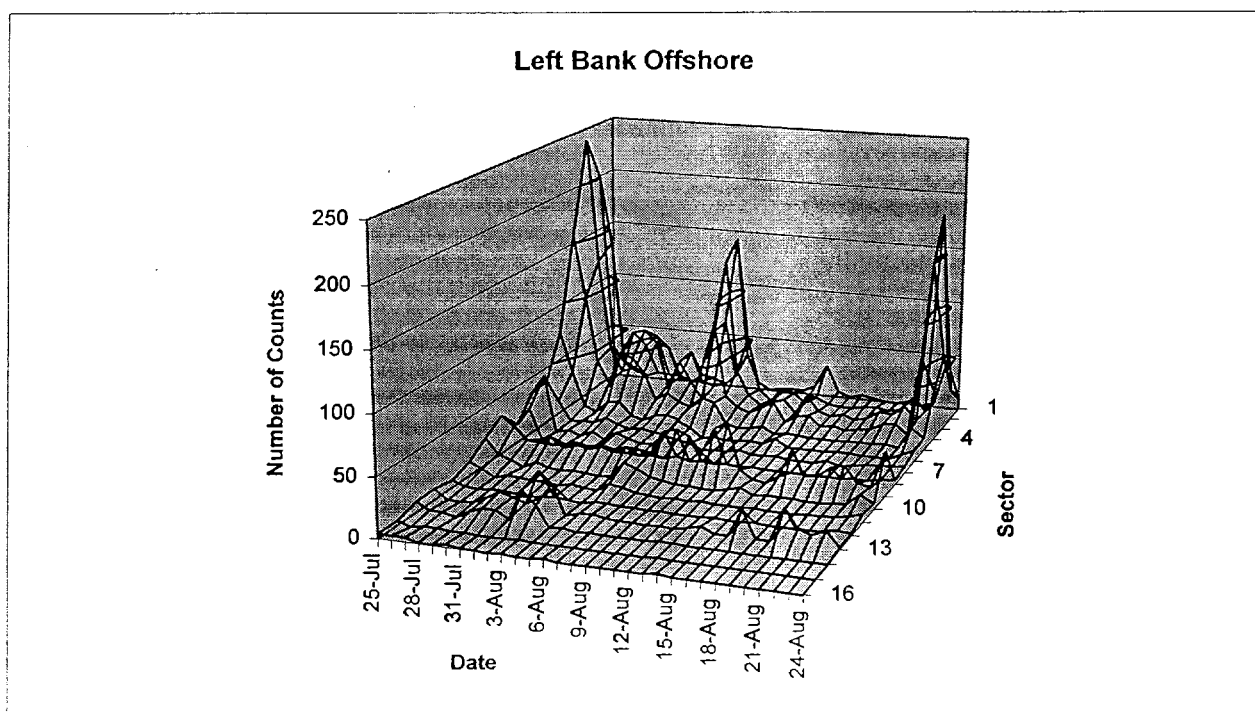
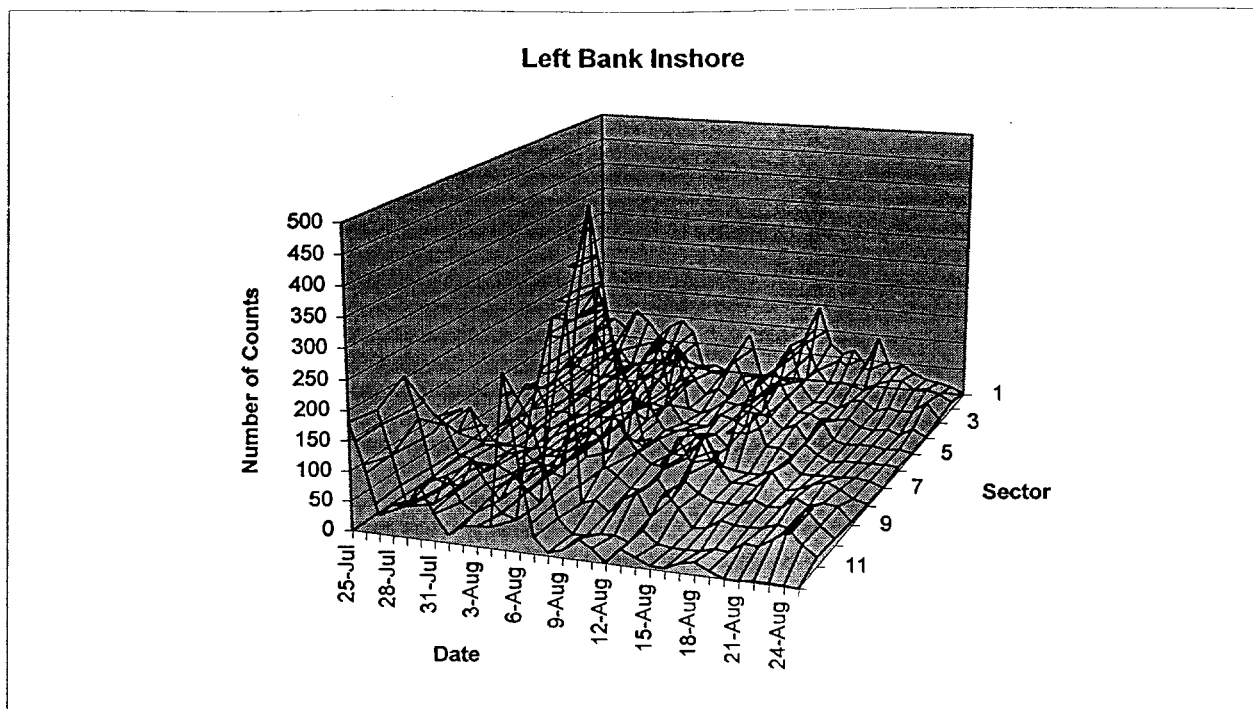


Figure 8. Number of sonar counts by sector for the left bank inshore and offshore counters, Nushagak River sonar project, July 25 - August 25, 1995.

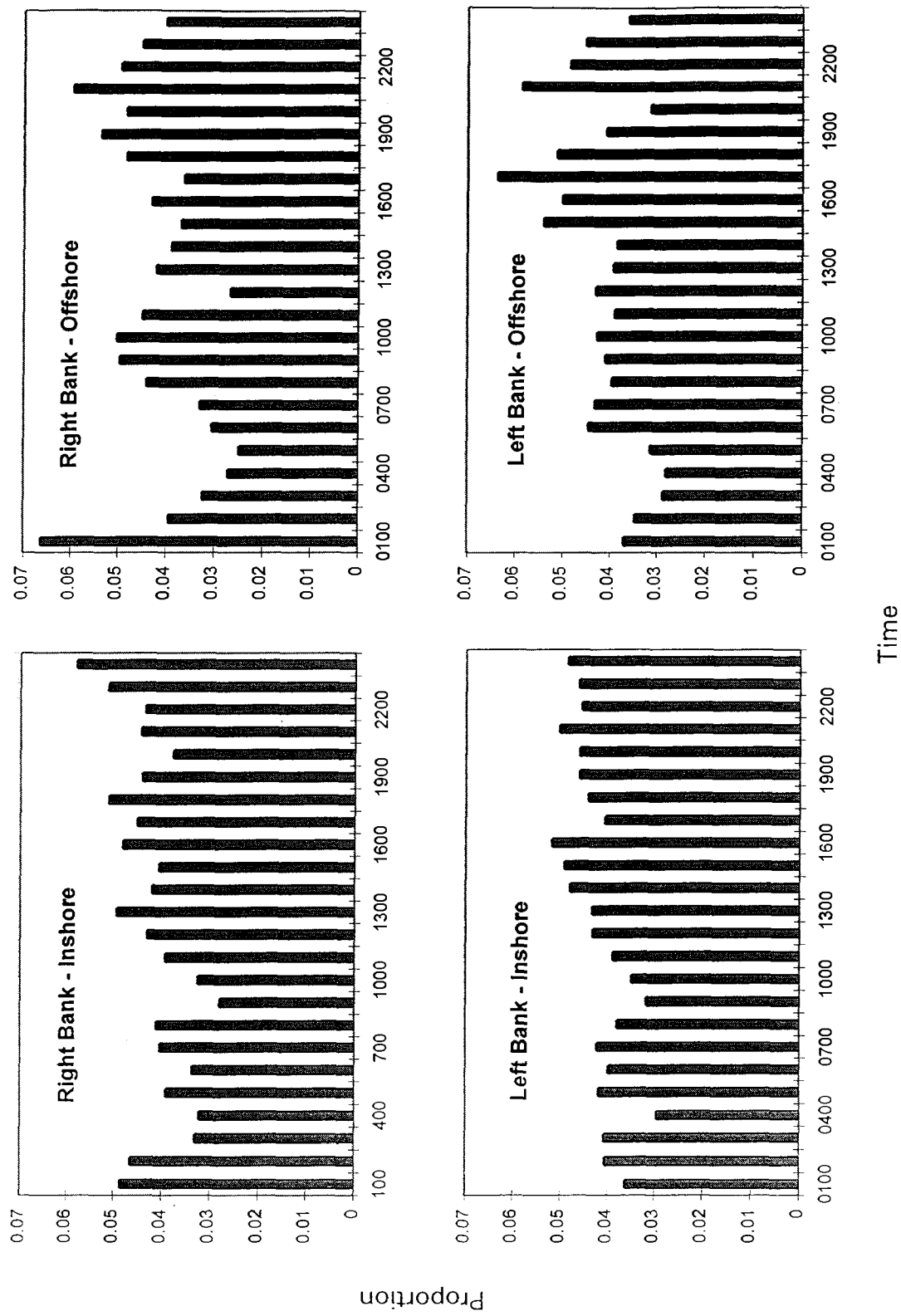


Figure 9. Proportion of sonar counts by hour for the right and left banks inshore and offshore counters, Nushagak River sonar project, June 8 - July 24, 1995.

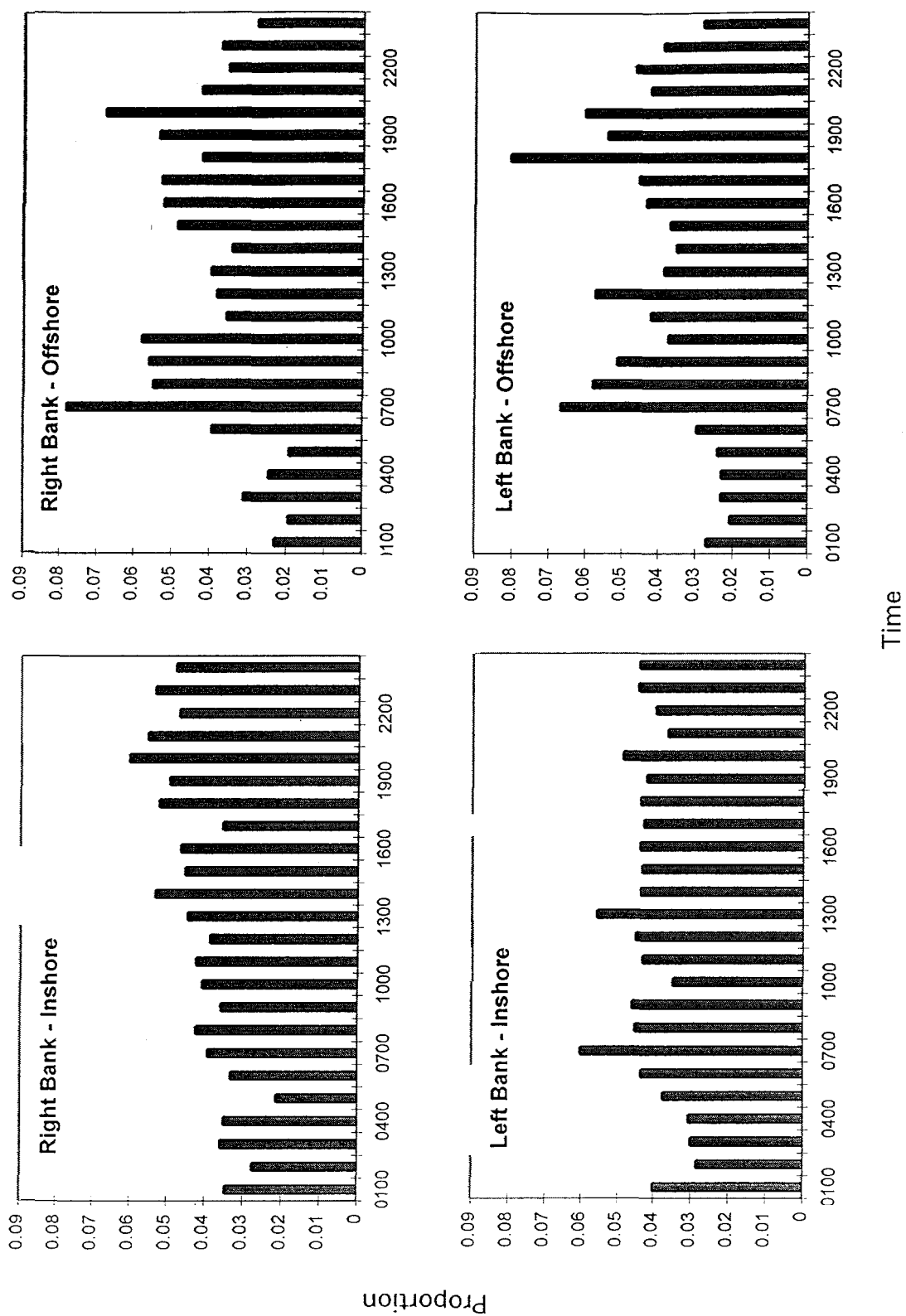


Figure 10. Proportion of sonar counts by hour for the right and left banks inshore and offshore counters, Nushagak River sonar project, June 8 - July 24, 1995.

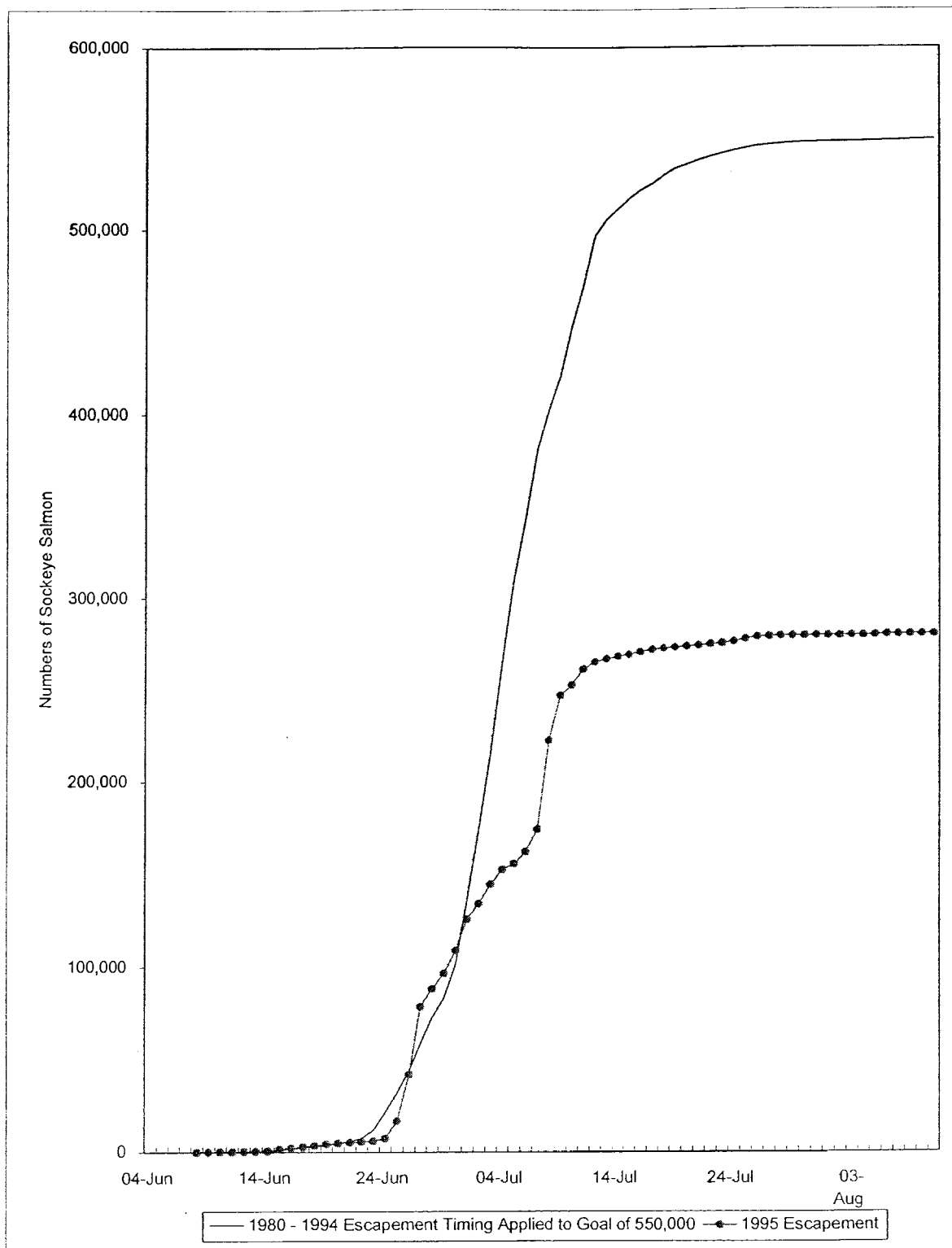


Figure 11. Average escapement timing of sockeye salmon into Nushagak River, June 4 through August 10, 1980 - 1995.

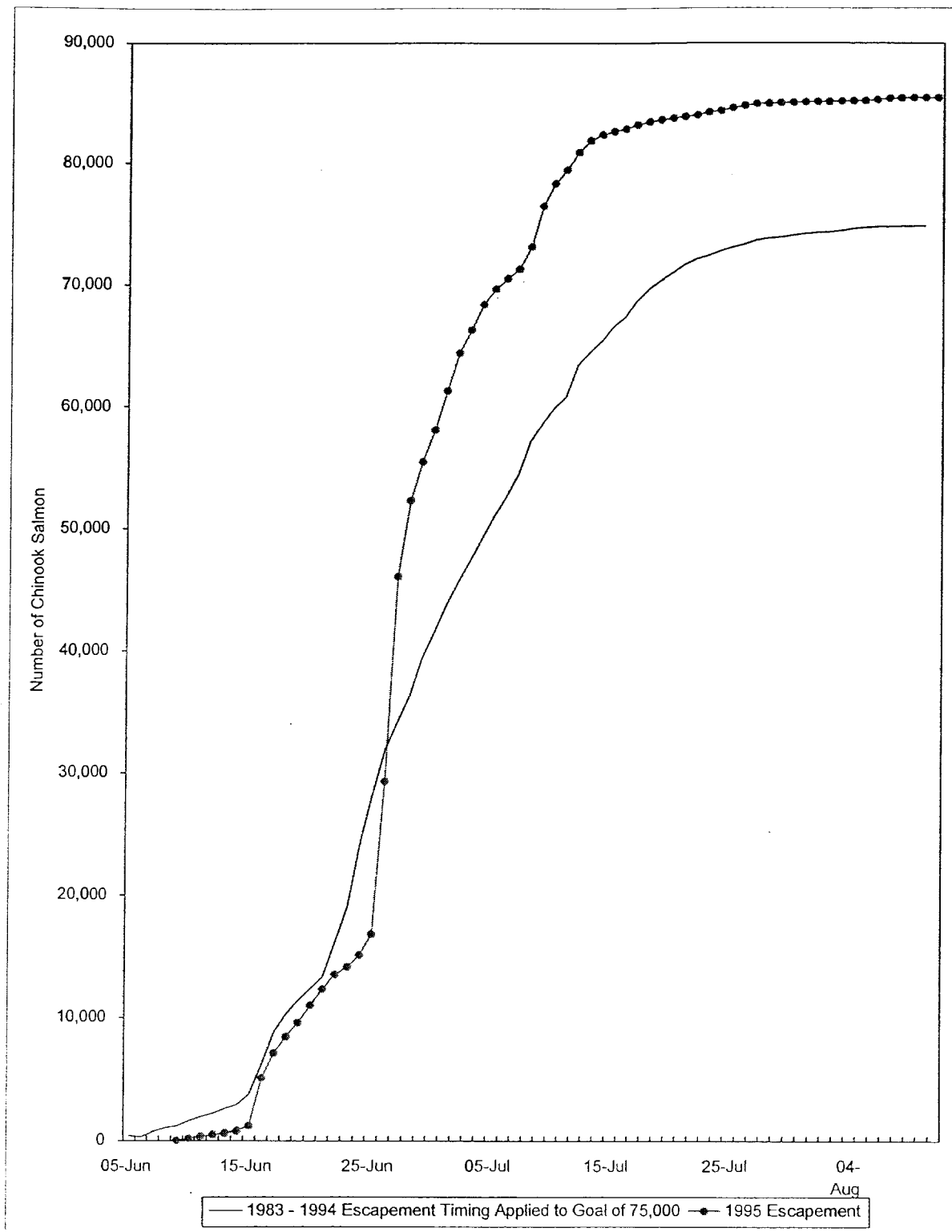


Figure 12. Average escapement timing of chinook salmon into Nushagak River, June 5 through August 10, 1983 - 1995.

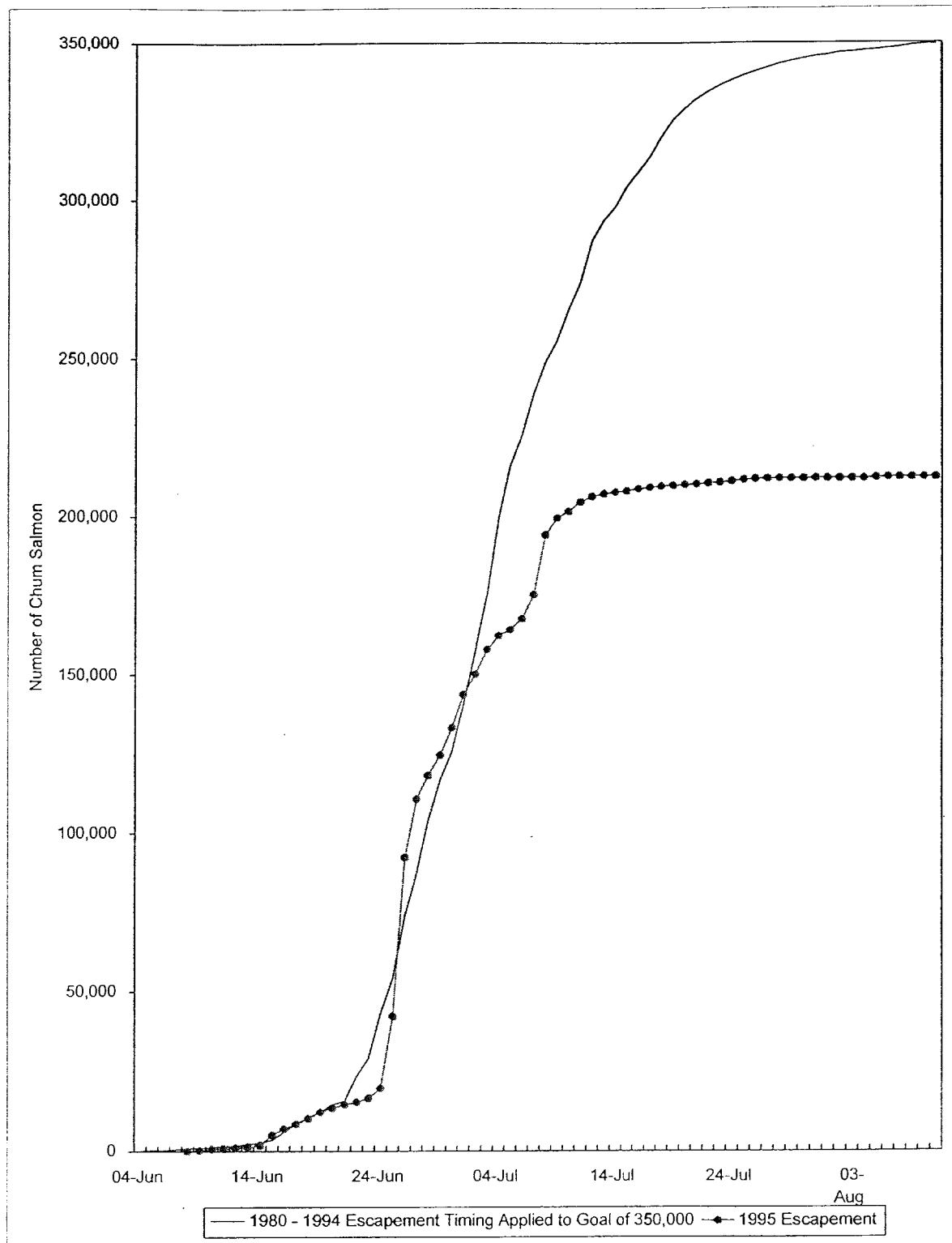


Figure 13. Average escapement timing of chum salmon into Nushagak River, June 5 through August 10, 1980 - 1995.

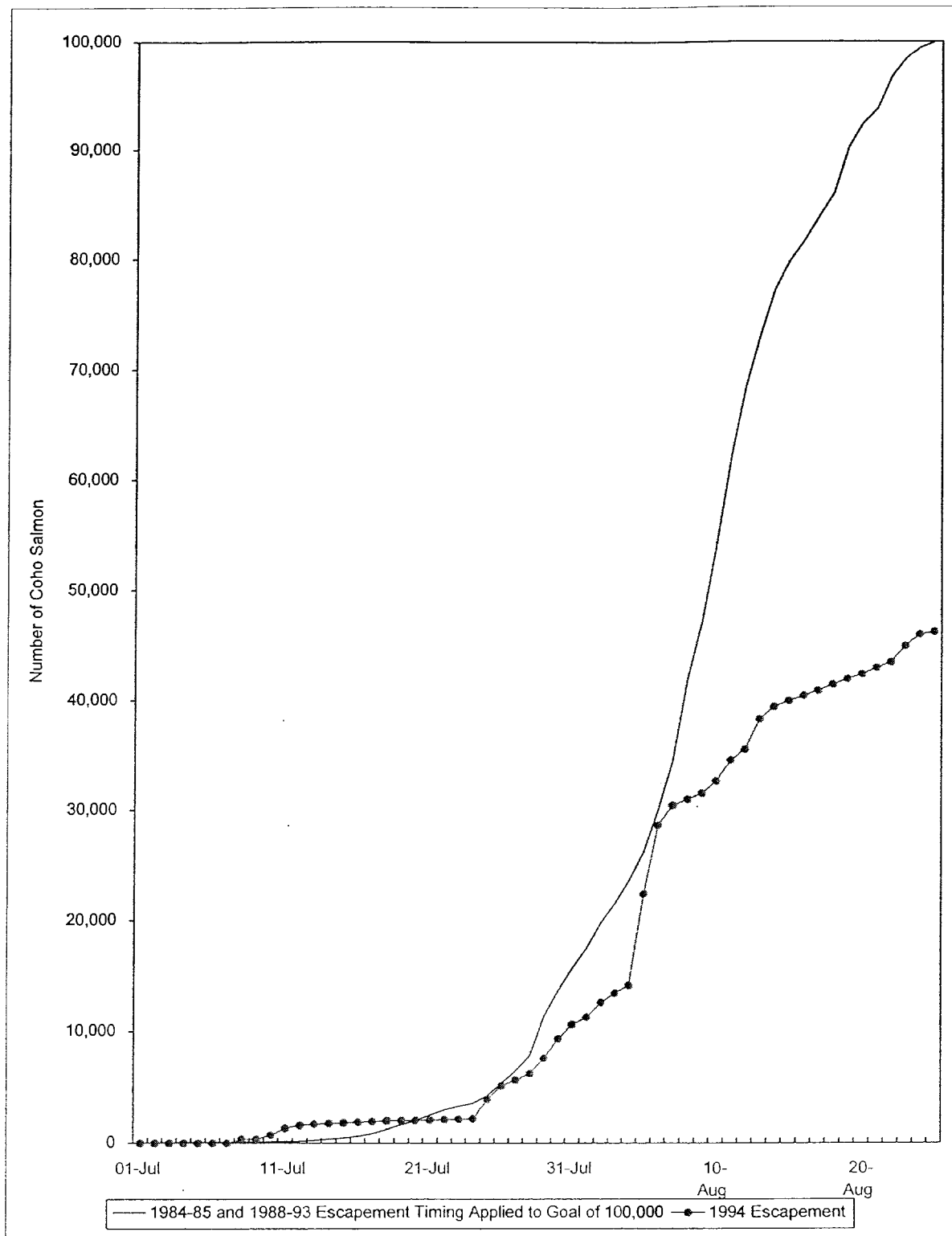


Figure 14. Average escapement timing of coho salmon into Nushagak River, July 1 through August 25, 1984 - 1985, and 1988 - 1995.

APPENDIX

Appendix A.1. Report periods for pooling escapement
sampling data for the estimation of
of species composition, Nushagak
River sonar project, 1995.

Date(s)	Counting Range			
	Left Inshore	Left Offshore	Right Inshore	Right Offshore
6/08-6/25	1	1	1	1
6/26	2	2	2	1
6/27	3	2	3	2
6/28-7/01	4	3	4	2
7/02-7/03	4	3	5	2
7/04-7/05	5	3	5	3
7/06	5	4	5	3
7/07	5	4	6	3
7/08	5	4	7	3
7/09	5	4	8	3
7/10-7/24	6	4	9	3
7/25-7/26	6	5	9	4
7/27-7/28	7	5	9	4
7/29-8/25	7	5	10	4

Appendix B.1. Climatological observations, Nushagak River sonar project, 1995.

Date	Cloud Cover ^a		Wind Direction & Velocity (k/hr)		Air Temperature (°C)		Water Temperature (°C)		Precipitation	Water Color
	800	2000	800	2000	800	2000	800	2000		
6/07	—	3	—	SW 5	—	—	—	—	—	lt brown
6/08	2	2	W 5-10	SW 5	—	—	—	—	—	lt brown
6/09	3	2	calm	calm	8.0	15.0	—	—	0.0	lt brown
6/10	3	2	calm	calm	9.0	13.0	9.0	10.0	0.0	lt brown
6/11	1	1	E 5-10	calm	11.0	22.0	10.0	10.0	0.0	lt brown
6/12	1	1	calm	calm	14.4	24.0	10.5	12.5	0.0	lt brown
6/13	1	3	S 5	S 15	12.0	19.0	10.5	13.0	0.0	lt brown
6/14	4	4	S 10	SE 5-10	10.0	8.0	10.5	11.5	2.8	lt brown
6/15	4	3	SE 5	calm	8.0	12.0	10.0	10.5	5.8	lt brown
6/16	2	3	calm	SE 5-10	6.7	11.0	9.0	10.0	0.0	lt brown
6/17	2	2	SE 0-5	—	11.1	10.6	9.0	9.0	0.0	lt brown
6/18	2	—	calm	—	8.9	20.5	—	—	0.0	lt brown
6/19	4	1	calm	E 5	9.4	17.0	10.0	11.0	0.0	lt brown
6/20	2	3	calm	SE 10	10.0	13.0	10.0	11.0	0.0	lt brown
6/21	4	4	SE 10	S 5-10	13.3	12.0	10.0	10.0	1.8	lt brown
6/22	2	3	NW 5	SE 5	14.4	14.0	—	—	0.9	lt brown
6/23	—	3	—	SE 5	14.0	14.4	11.0	11.5	Trace ^b	lt brown
6/24	4	1	E 3	SSE 10-15	11.1	16.0	11.5	10.5	Trace	lt brown
6/25	4	3	S 10	S 5	7.0	11.0	11.0	11.0	0.0	lt brown
6/26	4	2	calm	calm	8.0	15.6	10.5	12.0	0.0	lt brown
6/27	1	3	calm	NE 0-5	8.0	14.0	10.5	—	0.8	lt brown
6/28	4	3	E 5	E 5	9.0	13.0	10.0	10.5	0.0	lt brown
6/29	4	4	S 5	—	8.0	15.6	10.0	10.0	Trace	lt brown
6/30	4	4	N 5	E 5-10	9.0	10.6	—	12.0	14.0	lt brown
7/01	4	4	NE 5	—	12.2	14.4	11.5	11.0	Trace	lt brown
7/02	4	3	calm	calm	11.1	17.2	11.5	11.5	2.0	lt brown
7/03	3	1	calm	calm	12.2	19.4	13.0	15.0	0.0	lt brown
7/04	1	1	NW 0-5	calm	12.8	18.9	14.0	16.0	0.0	lt brown
7/05	1	1	N 0-5	E 5-10	15.0	21.5	14.5	16.5	0.0	lt brown
7/06	2	4	E 15-20	E 15-20	10.6	12.2	14.0	15.0	6.1	lt brown
7/07	4	2	SE 10	SSW 5	7.2	9.4	14.5	14.5	7.6	lt brown
7/08	4	3	SE 0-5	calm	7.2	15.6	14.0	14.5	0.0	lt brown
7/09	3	4	calm	E 5	8.9	12.8	14.0	14.0	5.8	lt brown
7/10	4	4	calm	calm	11.7	18.3	14.0	14.5	0.8	lt brown
7/11	4	4	SE 5-10	calm	11.7	15.0	14.5	15.5	2.5	lt brown
7/12	3	3	calm	calm	12.8	15.6	15.5	15.5	0.0	lt brown
7/13	3	3	NW 0-5	SE 0-5	11.7	18.9	15.0	14.0	0.8	lt brown
7/14	4	3	S 0-5	N 0-5	11.7	13.0	14.5	15.0	0.8	lt brown
7/15	2	3	calm	N 15	10.0	13.9	14.5	14.0	0.0	lt brown
7/16	3	3	NNE 0-5	calm	10.6	15.6	14.5	14.5	4.8	lt brown
7/17	4	3	calm	calm	11.7	13.3	14.0	14.0	4.1	lt brown
7/18	1	2	calm	N 0-5	12.2	20.0	14.5	16.0	0.0	lt brown
7/19	1	2	calm	SE 10	12.2	—	15.5	15.5	0.0	lt brown
7/20	3	2	S 10	SE 10	14.4	18.9	15.5	16.0	1.3	lt brown
7/21	3	2	calm	calm	13.3	15.0	15.0	16.0	0.8	lt brown
7/22	2	2	E 5	E 5	13.3	15.6	15.0	15.0	0.0	lt brown
7/23	4	4	SE 10	SE 5	12.2	—	15.0	15.0	2.5	lt brown

-Continued-

Appendix B.1. (p 2 of 2)

Date	Cloud Cover ^a		Wind Direction & Velocity (k/hr)		Air Temperature (°C)		Water Temperature (°C)		Precipitation	Water Color
	800	2000	800	2000	800	2000	800	2000		
7/24	3	3	SE 5-10	SSW 10	13.3	14.4	14.0	15.0	1.8	lt brown
7/25	--	3	--	NW 0-5	--	18.3	14.0	14.5	2.8	lt brown
7/26	3	2	calm	--	10.0	15.0	14.5	14.5	3.6	lt brown
7/27	3	4	calm	S 0-5	10.6	13.9	15.0	16.0	0.0	lt brown
7/28	4	4	NE 5	ESE 15-25	10.0	12.8	15.0	15.0	8.4	lt brown
7/29	4	4	W 0-5	S 5	10.6	10.6	14.5	14.5	6.6	lt brown
7/30	4	4	E 0-5	S 5	10.0	10.6	14.0	14.5	0.5	lt brown
7/31	4	3	calm	E 20	11.1	14.4	14.0	14.0	Trace	lt brown
8/01	4	4	NE 0-5	E 10	10.0	11.1	13.5	14.0	9.1	lt brown
8/02	4	4	calm	W 5	11.1	11.1	14.5	14.5	3.8	lt brown
8/03	2	2	calm	W 10	11.1	16.7	13.0	14.0	Trace	lt brown
8/04	2	1	SW 5-10	S 20	12.2	13.9	13.0	14.5	0.0	lt brown
8/05	3	2	SW 5	SW 15	10.6	12.8	13.5	14.5	0.0	lt brown
8/06	4	4	S 5	S 5	10.6	13.9	14.0	14.0	0.8	brown
8/07	4	4	calm	calm	8.9	12.8	13.0	13.5	2.3	brown
8/08	4	4	SE 5-10	S 0-5	10.0	11.1	13.5	12.5	0.0	lt brown
8/09	4	3	NE 5-10	E 5	11.1	11.7	12.0	13.0	25.1	brown
8/10	1	3	SW 10	S 5-10	11.7	11.7	12.0	13.0	0.0	brown
8/11	4	4	N 5	NW 5	10.0	10.5	12.0	12.5	20.8	brown
8/12	4	3	N 10	E 5	11.1	11.1	12.0	12.0	18.2	dk brown
8/13	1	3	calm	calm	4.4	11.7	10.5	11.0	Trace	dk brown
8/14	1	1	calm	calm	3.9	11.7	10.5	12.0	0.0	dk brown
8/15	1	1	calm	S 0-5	2.2	13.9	11.5	11.5	0.0	dk brown
8/16	5	2	calm	calm	10.0	11.1	12.0	12.0	0.0	dk brown
8/17	5	1	calm	calm	7.8	13.3	13.0	13.0	0.0	dk brown
8/18	4	1	calm	calm	7.8	18.3	12.5	15.0	0.0	brown
8/19	1	3	calm	calm	11.1	11.1	14.0	--	0.0	brown
8/20	1	1	calm	calm	11.1	--	13.5	--	0.0	brown
8/21	1	2	calm	calm	11.1	10.0	--	--	0.0	brown
8/22	2	4	SE 5	S 5-10	11.1	11.9	14.0	14.0	2.0	brown
8/23	3	3	W 0-5	calm	10.6	--	14.0	14.0	Trace	brown
8/24	3	4	calm	S 0-5	11.7	11.7	14.0	14.0	0.0	brown
8/25	3	--	calm	--	10.6	--	14.0	--	--	lt brown

^a 1 = clouds covering less than 1/10 of sky
2 = not more than 1/2
3 = more than 1/2
4 = completely
5 = fog or thick haze

^b Precipitation less than 0.5 mm

Appendix C.1. Sonar counts by date and sector, right bank inshore strata, Nushagak River sonar, 1995.

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
6/08	22	12	1	1	0	2	6	12	4	3	3	6	72	72
6/09	62	23	8	4	1	1	4	17	7	7	17	8	159	231
6/10	117	71	40	14	2	10	4	7	13	23	17	31	349	580
6/11	16	31	16	6	4	2	0	9	10	3	3	8	108	688
6/12	38	24	29	17	0	0	2	0	0	0	3	2	115	803
6/13	62	52	13	1	0	0	3	5	1	1	0	3	141	944
6/14	49	13	12	11	3	8	18	11	26	40	21	16	228	1,172
6/15	244	286	127	61	57	60	70	175	272	362	237	84	2,035	3,207
6/16	18	39	68	25	8	11	50	90	140	185	125	106	865	4,072
6/17	0	101	97	30	22	35	41	93	96	106	55	129	805	4,877
6/18	65	90	48	20	5	16	53	119	207	317	309	270	1,519	6,396
6/19	3	35	15	13	33	57	108	272	287	351	200	142	1,516	7,912
6/20	0	20	14	8	7	12	49	109	129	129	69	43	589	8,501
6/21	0	23	20	4	5	22	74	135	96	100	64	29	572	9,073
6/22	3	19	34	13	3	1	18	29	53	95	43	22	333	9,406
6/23	0	33	43	25	13	16	45	53	62	63	49	42	444	9,850
6/24	18	33	13	23	129	481	1,190	1,093	248	129	65	39	3,461	13,311
6/25	36	47	184	1,008	2,758	5,158	7,705	5,237	572	39	6	15	22,765	36,076
6/26	28	63	446	1,480	2,532	4,131	9,624	11,887	4,740	1,226	175	21	36,353	72,429
6/27	36	68	376	1,604	2,795	4,071	5,687	6,796	2,501	663	79	22	24,698	97,127
6/28	58	27	99	469	741	1,110	1,975	2,836	1,296	359	19	9	8,998	106,125
6/29	29	25	8	25	49	121	772	2,686	2,687	1,328	54	25	7,809	113,934
6/30	83	27	16	69	256	826	2,258	5,336	2,984	766	32	11	12,664	126,598
7/01	72	45	200	820	1,516	2,247	3,891	6,247	3,420	1,134	54	36	19,682	146,280
7/02	135	26	35	159	428	818	1,823	3,319	2,126	840	50	5	9,764	156,044
7/03	304	29	66	162	465	944	2,084	3,847	2,500	1,041	139	11	11,592	167,636
7/04	90	30	23	92	172	331	906	2,198	1,781	787	91	9	6,510	174,146
7/05	121	24	20	18	28	69	324	752	543	222	27	5	2,153	176,299
7/06	44	28	20	41	142	661	2,019	2,132	784	142	4	2	6,019	182,318
7/07	124	38	300	994	1,912	3,474	5,218	2,698	452	35	10	4	15,259	197,577
7/08	93	309	2,407	4,917	5,635	6,821	11,163	11,736	5,501	1,102	47	16	49,747	247,324
7/09	61	57	411	1,063	1,792	3,135	5,503	5,294	1,929	244	4	17	19,510	266,834
7/10	24	35	290	568	656	704	1,040	1,197	686	160	4	4	5,368	272,202
7/11	53	42	159	381	680	1,156	2,573	1,997	575	60	1	3	7,680	279,882
7/12	64	62	89	148	208	290	734	988	511	119	4	0	3,217	283,099
7/13	80	31	47	52	39	66	224	291	177	102	36	2	1,147	284,246

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Appendix C.1. (p 2 of 3)

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
7/14	70	37	14	11	10	33	100	184	143	43	1	2	648	284,894
7/15	28	28	16	9	9	59	120	125	79	17	2	14	506	285,400
7/16	108	38	30	18	34	45	81	200	211	105	15	2	887	286,287
7/17	92	43	29	32	44	52	59	130	102	64	21	0	668	286,955
7/18	0	18	32	22	9	10	37	86	86	62	12	0	374	287,329
7/19	0	16	26	14	7	13	20	39	39	33	11	0	218	287,547
7/20	0	3	26	9	9	3	22	56	44	23	8	1	204	287,751
7/21	0	21	28	16	6	7	12	33	26	17	3	2	171	287,922
7/22	5	2	17	9	1	3	9	34	92	56	11	1	240	288,162
7/23	4	6	10	9	3	7	8	19	21	21	10	3	121	288,283
7/24	19	45	58	59	8	12	62	189	114	44	3	0	613	288,896
7/25	68	49	66	35	55	95	197	358	251	115	14	8	1,311	290,207
7/26	53	17	54	29	15	12	57	216	247	167	51	1	919	291,126
7/27	9	29	8	6	11	14	7	48	38	21	10	16	217	291,343
7/28	50	22	10	3	6	13	47	129	81	33	4	30	428	291,771
7/29	63	28	10	12	9	18	74	160	170	87	13	26	670	292,441
7/30	41	78	63	22	56	80	104	199	143	107	29	25	947	293,388
7/31	34	22	12	20	42	68	177	100	75	62	42	8	662	294,050
8/01	17	20	9	5	3	9	17	38	53	45	21	5	242	294,292
8/02	1	15	18	4	9	17	36	94	117	100	61	18	490	294,782
8/03	4	13	9	5	5	8	19	69	49	39	26	17	263	295,045
8/04	39	49	26	13	6	14	22	46	45	69	65	46	440	295,485
8/05	145	292	804	956	694	601	719	712	386	294	104	9	5,716	301,201
8/06	106	65	88	176	332	480	630	757	452	335	162	56	3,639	304,840
8/07	36	10	17	32	42	45	79	138	192	155	64	20	830	305,670
8/08	19	15	14	8	4	3	15	34	34	35	24	6	211	305,881
8/09	9	20	15	11	3	9	20	31	22	24	12	0	176	306,057
8/10	33	45	53	40	36	45	81	144	95	98	63	0	733	306,790
8/11	117	128	160	117	111	140	121	161	99	79	60	0	1,293	308,083
8/12	85	233	134	46	22	15	26	54	46	71	42	3	777	308,860
8/13	432	443	339	115	41	52	66	134	88	82	53	4	1,849	310,709
8/14	67	82	89	41	32	31	50	93	68	57	54	10	674	311,383
8/15	65	37	30	20	4	15	17	19	32	35	28	27	329	311,712
8/16	35	23	38	14	6	13	20	19	31	29	37	6	271	311,983
8/17	10	4	6	7	3	2	22	24	63	47	35	6	229	312,212
8/18	3	2	15	7	3	5	11	34	40	27	27	2	176	312,388

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Appendix C.I. (p 3 of 3)

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
8/19	22	22	20	19	5	6	16	45	50	46	10	1	262	312,650
8/20	2	2	10	2	3	7	10	15	32	12	33	6	134	312,784
8/21	2	6	7	2	3	7	15	45	55	37	8	0	187	312,971
8/22	27	26	20	7	6	15	35	40	27	12	13	0	228	313,199
8/23	9	21	22	14	8	8	24	36	40	44	24	1	251	313,450
8/24	8	42	14	6	8	16	22	51	56	55	89	40	407	313,857
8/25	6	4	3	2	5	9	17	33	9	14	14	33	149	314,006
Total	4,197	4,043	8,269	16,358	24,834	38,995	70,575	84,890	41,577	15,221	3,527	1,676	314,006	

Appendix C.2. Sonar counts by date and sector, right bank offshore strata, Nushagak River sonar, 1995.

Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
6/09	0	1	6	4	2	8	7	14	1	0	0	0	0	0	0	0	43	43
6/10	0	1	4	5	3	3	2	4	7	1	1	0	0	1	1	4	37	80
6/11	0	7	4	0	1	2	0	0	0	0	0	1	1	0	0	15	31	111
6/12	0	2	4	1	0	2	1	0	0	1	0	0	0	1	1	0	13	124
6/13	0	2	3	0	0	2	0	0	1	0	0	0	1	3	4	5	21	145
6/14	0	2	1	0	0	15	2	3	3	1	0	0	0	0	0	3	30	175
6/15	3	2	1	1	0	2	1	0	0	5	6	4	7	3	9	7	971 ^a	1,146
6/16	2	10	12	3	0	1	0	0	1	1	2	3	1	2	0	1	712 ^a	1,858
6/17	42	10	5	17	33	16	13	5	17	12	0	0	0	0	0	1	699 ^a	2,557
6/18	0	0	3	0	0	0	1	0	1	2	9	15	21	2	1	1	854 ^a	3,411
6/19	0	21	196	317	164	214	96	47	80	63	38	10	6	1	27	10	1,288	4,699
6/20	5	16	153	201	126	66	54	25	29	39	60	24	5	2	0	0	805	5,504
6/21	3	16	70	137	87	74	53	24	31	39	92	12	4	1	0	0	643	6,147
6/22	0	6	86	179	96	81	57	20	20	22	6	6	5	0	0	0	582	6,729
6/23	7	16	205	379	240	153	88	47	43	50	15	12	3	1	1	0	1,260	7,989
6/24	3	33	348	377	246	237	247	91	69	78	16	4	1	0	0	0	1,750	9,739
6/25	3	27	428	1,210	807	481	289	144	106	125	84	62	46	32	19	17	3,879	13,618
6/26	3	140	1,774	4,072	2,403	1,365	857	378	267	358	187	88	75	58	35	24	12,080	25,698
6/27	5	93	738	1,349	865	579	319	160	95	124	79	42	39	12	10	6	4,514	30,212
6/28	0	17	274	641	459	312	191	86	75	56	39	29	23	21	9	13	2,244	32,456
6/29	1	22	300	733	529	302	185	71	62	89	52	23	27	11	5	3	2,414	34,870
6/30	0	25	249	716	569	420	254	103	71	103	64	55	41	39	19	6	2,734	37,604
7/01	3	41	401	895	647	373	204	135	90	73	26	13	16	16	11	12	2,954	40,558
7/02	1	6	260	702	412	276	198	89	39	51	29	9	14	9	4	0	2,099	42,657
7/03	1	36	385	827	459	234	145	59	27	37	21	10	5	3	0	0	2,249	44,906
7/04	0	28	228	522	329	150	78	56	32	45	23	15	11	3	7	0	1,527	46,433
7/05	0	10	90	281	222	113	64	27	15	29	4	4	4	3	3	1	870	47,303
7/06	0	6	83	247	227	113	80	38	15	19	8	21	10	2	0	0	869	48,172
7/07	1	40	264	793	818	493	260	127	58	101	43	32	18	9	2	1	3,057	51,229
7/08	2	314	1,763	2,842	1,712	767	421	209	108	148	80	57	40	16	12	5	8,492	59,721
7/09	0	139	729	945	485	246	131	74	56	65	32	34	25	13	4	4	2,981	62,702
7/10	2	22	189	515	346	190	72	48	45	39	10	12	11	7	4	4	1,515	64,217
7/11	2	15	196	399	285	186	76	50	25	60	32	20	15	8	4	1	1,373	65,590
7/12	2	28	177	411	240	121	55	24	28	22	26	8	7	4	3	1	1,157	66,747
7/13	2	16	64	155	131	90	41	29	8	10	4	5	15	2	8	0	580	67,327
7/14	5	10	33	66	80	54	23	9	2	11	9	2	5	2	2	0	313	67,640
7/15	0	0	28	80	61	43	30	8	7	10	5	2	8	1	2	3	288	67,928
7/16	6	20	97	225	122	66	23	16	15	15	16	7	6	3	0	0	637	68,565
7/17	9	5	47	90	86	54	25	11	29	65	40	13	8	2	3	0	487	69,052
7/18	0	0	22	34	37	40	19	10	10	23	13	3	1	1	2	2	217	69,269
7/19	1	6	12	44	29	16	10	5	3	4	0	0	2	0	0	1	133	69,402

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Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
7/20	0	1	4	17	22	21	14	1	2	0	2	0	1	0	1	2	88	69,490
7/21	0	4	8	24	25	13	4	5	6	3	2	1	4	2	3	5	109	69,599
7/22	0	10	30	48	32	24	13	10	13	5	5	9	1	0	0	13	213	69,812
7/23	0	3	7	20	33	36	28	7	1	11	7	2	5	3	3	5	171	69,983
7/24	3	12	39	117	64	18	26	15	4	7	2	0	5	1	0	3	316	70,299
7/25	11	60	222	293	122	61	33	21	6	14	8	9	4	13	9	11	897	71,196
7/26	6	56	139	204	118	62	41	23	5	4	9	5	11	6	4	4	697	71,893
7/27	5	18	17	27	7	7	5	7	10	5	4	3	2	2	1	1	121	72,014
7/28	0	4	15	27	21	10	5	3	2	2	1	1	3	3	10	6	113	72,127
7/29	0	15	51	109	46	15	5	3	4	7	8	1	11	4	8	11	298	72,425
7/30	1	9	48	79	40	16	14	3	0	4	13	1	6	1	5	11	251	72,676
7/31	3	37	61	78	26	18	8	5	11	12	2	3	1	1	4	1	271	72,947
8/01	2	8	24	38	14	7	10	0	1	3	1	1	3	3	1	14	130	73,077
8/02	3	49	108	109	33	17	7	6	3	5	5	3	7	5	5	20	385	73,462
8/03	2	11	41	36	9	3	6	1	0	2	2	1	3	4	2	26	149	73,611
8/04	1	4	17	15	3	1	3	1	0	2	1	1	0	1	14	21	85	73,696
8/05	4	112	250	216	85	37	20	14	9	4	12	7	9	3	5	7	794	74,490
8/06	14	169	273	247	86	43	25	17	13	13	8	2	3	7	5	5	930	75,420
8/07	21	71	119	120	42	15	29	16	2	6	7	7	9	27	4	13	508	75,928
8/08	0	10	18	29	9	4	3	2	0	0	1	0	1	4	1	6	88	76,016
8/09	3	14	13	24	8	9	3	2	2	1	1	3	5	15	7	27	137	76,153
8/10	5	23	51	39	10	8	6	2	0	4	1	0	5	1	10	22	187	76,340
8/11	8	37	68	44	7	14	8	7	9	6	4	11	10	5	7	8	253	76,593
8/12	4	28	15	7	3	3	1	1	1	4	0	1	2	0	0	0	70	76,663
8/13	8	31	26	17	6	3	10	2	2	3	7	1	3	1	3	5	128	76,791
8/14	10	28	8	6	3	1	3	4	0	0	1	2	1	0	0	1	68	76,859
8/15	6	11	5	6	2	3	1	0	0	0	0	0	0	0	0	0	34	76,893
8/16	1	9	9	6	0	0	0	0	0	1	0	0	1	0	0	0	27	76,920
8/17	0	3	7	7	3	4	1	0	0	1	2	0	0	0	0	0	28	76,948
8/18	2	2	7	16	5	2	3	2	3	1	0	0	0	0	0	0	43	76,991
8/19	2	8	8	10	2	0	5	0	1	1	0	0	0	0	0	0	37	77,028
8/20	0	0	6	11	10	3	1	0	0	0	0	0	0	0	0	0	31	77,059
8/21	0	9	20	25	10	5	0	2	2	2	0	0	0	0	0	0	75	77,134
8/22	2	8	9	3	4	2	1	0	0	0	0	0	0	0	0	1	30	77,164
8/23	9	67	121	123	27	32	15	4	1	3	1	1	2	8	1	4	419	77,583
8/24	8	37	40	61	23	14	4	0	1	4	4	2	4	3	1	0	206	77,789
Total	259	2,191	11,839	22,677	14,323	8,497	5,040	2,440	1,714	2,146	1,303	747	662	431	341	420	77,789	

^a Adjusted daily totals.

Appendix C.3. Sonar counts by date and sector, left bank inshore strata, Nushagak River sonar, 1995.

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
6/08	10	6	6	0	0	10	17	24	10	2	2	5	92	92
6/09	25	28	8	2	1	20	10	36	23	37	42	20	252	344
6/10	7	12	8	3	8	1	2	15	44	38	31	9	178	522
6/11	11	21	3	0	1	1	4	17	33	46	19	6	162	684
6/12	37	22	13	7	5	0	23	35	18	7	24	8	199	883
6/13	29	49	30	43	25	14	42	52	29	4	42	11	370	1,253
6/14	21	100	74	70	83	75	86	150	24	69	35	40	827	2,080
6/15	35	56	51	42	61	75	136	197	84	25	67	35	864	2,944
6/16	51	64	37	57	62	117	238	255	145	28	76	38	1,168	4,112
6/17	112	31	15	38	22	35	72	361	61	24	33	15	819	4,931
6/18	44	40	21	24	35	17	74	152	73	37	38	33	588	5,519
6/19	79	48	9	18	32	23	8	71	51	49	28	19	435	5,954
6/20	70	68	22	21	45	24	24	70	36	73	62	20	535	6,489
6/21	9	27	2	8	20	44	43	76	60	54	26	19	388	6,877
6/22	60	31	17	4	9	6	10	92	56	113	64	45	507	7,384
6/23	28	23	11	11	4	6	11	30	20	78	44	18	284	7,668
6/24	26	12	6	0	1	0	14	18	9	36	13	8	143	7,811
6/25	75	7	4	55	559	1,464	2,901	4,211	542	1,297	708	14	11,837	19,648
6/26	122	32	40	181	1,025	2,566	5,564	9,893	3,420	1,558	1,181	44	25,626	45,274
6/27	30	86	156	676	3,473	5,116	5,274	5,560	1,593	381	169	38	22,552	67,826
6/28	23	128	74	239	430	587	902	1,431	401	427	223	21	4,886	72,712
6/29	97	6	3	2	33	108	549	316	994	1,649	250	26	4,033	76,745
6/30	153	12	12	90	115	286	733	455	1,114	1,463	204	9	4,646	81,391
7/01	115	27	49	165	258	325	757	423	971	1,356	231	24	4,701	86,092
7/02	194	29	14	54	134	207	294	115	423	813	220	36	2,533	88,625
7/03	58	77	30	116	203	270	500	293	725	1,291	354	25	3,942	92,567
7/04	64	46	49	20	34	95	400	287	627	1,362	518	47	3,549	96,116
7/05	72	43	32	24	29	33	31	130	280	451	243	71	1,439	97,555
7/06	51	45	46	50	50	117	282	290	608	836	299	67	2,741	100,296
7/07	103	168	95	58	74	137	169	163	233	351	165	34	1,750	102,046
7/08	173	94	180	68	183	903	1,380	1,143	1,812	2,381	773	152	9,242	111,288
7/09	111	108	54	56	210	785	992	930	1,326	1,553	456	77	6,658	117,946
7/10	86	50	30	28	22	52	118	52	202	392	157	30	1,219	119,165
7/11	109	93	41	56	29	79	272	297	810	1,288	447	66	3,587	122,752
7/12	90	37	50	33	28	40	7	119	299	472	225	48	1,448	124,200
7/13	108	59	62	33	26	34	13	31	187	284	136	34	1,007	125,207

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Appendix C.3. (p 2 of 3)

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
7/14	97	44	76	28	14	67	181	73	151	188	85	30	1,034	126,241
7/15	110	45	96	144	73	68	241	42	56	68	38	23	1,004	127,245
7/16	107	50	36	30	12	28	0	41	115	263	101	21	804	128,049
7/17	101	55	86	97	26	42	20	54	82	188	84	23	858	128,907
7/18	37	77	52	42	23	19	11	12	46	88	40	11	458	129,365
7/19	42	103	99	115	57	21	22	30	59	64	37	55	704	130,069
7/20	84	60	80	105	89	48	4	46	63	66	50	33	728	130,797
7/21	40	40	48	54	28	12	1	42	47	54	37	46	449	131,246
7/22	153	128	77	50	17	24	4	30	28	83	126	81	801	132,047
7/23	116	157	60	37	21	15	4	29	27	70	45	32	613	132,660
7/24	90	59	16	10	14	9	1	35	32	52	41	44	403	133,063
7/25	79	51	43	20	56	12	4	48	113	204	173	181	984	134,047
7/26	85	80	41	40	48	22	6	97	93	133	99	113	857	134,904
7/27	68	35	29	13	5	2	3	31	42	34	16	32	310	135,214
7/28	106	52	22	16	11	9	2	34	39	25	32	52	400	135,614
7/29	86	22	28	9	6	9	0	21	19	26	24	53	303	135,917
7/30	57	27	22	6	10	22	6	28	32	69	76	90	445	136,362
7/31	80	38	22	7	7	4	1	12	21	34	33	46	305	136,667
8/01	93	39	38	16	9	9	5	7	8	8	18	14	264	136,931
8/02	72	70	29	10	4	3	16	9	39	53	45	32	382	137,313
8/03	0	42	7	13	26	45	48	87	32	31	23	34	388	137,701
8/04	10	35	26	8	10	5	8	31	24	11	15	36	209	137,910
8/05	0	25	37	122	171	145	166	329	296	325	186	288	2,090	140,000
8/06	40	23	10	10	45	62	118	249	491	334	117	145	1,644	141,644
8/07	77	55	24	4	13	28	25	78	53	19	26	28	430	142,074
8/08	0	10	8	14	12	29	43	49	38	28	3	6	240	142,314
8/09	0	26	53	31	12	33	20	31	19	9	4	13	251	142,565
8/10	0	7	10	27	36	20	19	29	20	34	9	35	246	142,811
8/11	0	24	25	30	30	31	60	83	41	51	10	22	407	143,218
8/12	0	21	41	16	17	9	16	42	8	10	1	3	184	143,402
8/13	145	108	119	101	109	79	7	93	42	55	24	27	909	144,311
8/14	75	54	47	53	42	77	2	43	24	31	4	17	469	144,780
8/15	56	25	16	25	21	19	0	14	13	0	1	6	196	144,976
8/16	67	31	20	25	33	19	1	16	13	3	1	5	234	145,210
8/17	40	26	9	11	4	7	13	14	12	19	2	16	173	145,383
8/18	94	19	25	17	49	31	28	41	25	14	8	21	372	145,755

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Appendix C.3. (p 3 of 3)

Date	Sector												Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12		
8/19	37	35	30	22	12	14	10	12	15	13	6	10	216	145,971
8/20	47	43	12	9	5	3	10	17	17	15	23	1	202	146,173
8/21	33	46	20	5	8	8	12	27	36	24	21	0	240	146,413
8/22	23	30	15	10	9	8	12	35	25	19	36	3	225	146,638
8/23	19	34	18	2	4	9	14	25	33	56	56	3	273	146,911
8/24	14	26	38	16	7	9	11	11	30	30	33	2	227	147,138
8/25	3	14	8	3	3	8	2	5	7	12	16	1	82	147,220
Total	4,973	3,780	2,978	3,783	8,547	14,827	23,143	29,888	19,787	23,258	9,452	2,970	147,220	

Appendix C.4. Sonar counts by date and sector, left bank offshore strata, Nushagak River sonar, 1995.

Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
6/09	27	1	6	1	1	9	16	9	3	1	0	0	0	0	0	0	74	74
6/10	0	0	11	5	5	17	12	6	0	0	0	0	0	0	0	8	64	138
6/11	0	0	39	8	0	5	6	1	6	0	0	0	0	0	0	0	65	203
6/12	0	19	20	3	0	1	3	0	5	1	1	0	0	1	0	0	54	257
6/13	33	13	8	3	0	0	0	0	3	1	0	0	0	0	0	0	59	316
6/14	50	27	8	17	9	3	3	1	4	0	0	0	1	0	0	0	123	439
6/15	2	217	281	1,292	749	541	432	196	221	99	61	48	39	23	22	18	4,168	4,607
6/16	16	46	86	495	333	250	227	89	95	72	36	13	17	12	10	8	1,784	6,391
6/17	2	0	34	410	231	123	94	40	42	19	9	4	9	4	1	2	1,009	7,400
6/18	8	36	99	165	91	69	59	22	69	21	12	2	32	20	5	3	684	8,084
6/19	3	0	159	210	212	122	79	47	123	33	20	7	11	15	5	8	985	9,069
6/20	0	0	144	233	238	140	101	46	65	44	25	19	18	19	10	2	1,080	10,149
6/21	0	0	99	146	216	124	64	27	51	98	67	15	19	28	42	99	1,080	11,229
6/22	0	0	40	61	72	43	23	12	36	22	6	6	8	8	4	18	336	11,565
6/23	0	0	118	82	90	65	45	32	122	21	15	15	7	21	18	17	604	12,169
6/24	0	0	86	166	166	105	67	48	187	35	26	15	27	43	41	42	965	13,134
6/25	82	345	730	1,384	1,405	829	466	228	279	176	119	46	46	91	68	52	6,258	19,392
6/26	545	1,316	2,940	4,153	3,515	2,044	1,174	475	539	378	252	111	91	126	48	49	17,607	36,999
6/27	160	1,243	1,558	1,919	1,802	1,257	585	365	289	207	130	66	56	61	66	54	9,778	46,777
6/28	113	686	676	830	607	440	264	121	133	145	97	39	38	28	20	23	4,257	51,034
6/29	63	208	558	759	542	379	191	119	60	97	98	38	42	51	40	21	3,266	54,300
6/30	25	96	578	903	807	594	313	164	86	107	69	41	34	72	40	10	3,933	58,233
7/01	29	122	588	698	692	403	250	97	72	137	63	45	34	14	20	17	3,280	61,513
7/02	82	122	427	533	554	178	124	65	69	108	57	21	19	15	20	20	2,411	63,924
7/03	73	281	574	662	453	148	108	42	42	49	26	18	18	26	14	8	2,542	66,466
7/04	22	68	538	511	265	204	104	28	75	69	36	25	19	9	5	8	1,983	68,449
7/05	2	66	305	325	159	172	147	16	56	72	28	31	6	2	8	6	1,400	69,849
7/06	0	51	183	197	113	85	80	35	30	74	38	194	7	0	0	3	1,088	70,937
7/07	3	49	161	232	158	145	135	45	95	112	34	269	222	0	0	0	1,660	72,597
7/08	1	161	474	562	371	515	420	93	99	256	82	168	139	12	14	14	3,381	75,978
7/09	7	127	308	489	347	265	382	117	74	166	48	98	12	0	11	0	2,450	78,428
7/10	2	63	268	306	139	148	137	28	44	117	15	53	39	0	0	0	1,359	79,787
7/11	0	139	294	325	167	166	132	10	47	171	65	62	5	0	0	0	1,582	81,369
7/12	2	47	210	253	84	123	94	12	90	148	115	28	7	0	0	0	1,213	82,582
7/13	0	32	169	137	48	36	37	2	33	53	41	24	24	1	1	1	634	83,216
7/14	1	20	44	37	20	8	13	2	18	9	4	3	23	7	0	11	215	83,431
7/15	4	10	14	11	5	1	3	0	32	20	5	3	41	5	6	7	155	83,586
7/16	1	28	49	56	20	8	12	13	54	17	17	9	5	9	4	12	298	83,884
7/17	2	15	23	40	19	21	7	2	36	14	5	10	5	2	1	3	184	84,068
7/18	0	7	32	40	16	7	2	1	24	6	4	2	5	3	4	2	145	84,213
7/19	5	9	14	37	13	3	1	0	22	6	10	4	2	7	6	10	143	84,356

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Appendix C.4. (p 2 of 2)

Date	Sector																Daily Total	Cumulative Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
7/20	1	10	21	15	8	8	10	0	10	4	3	3	2	1	1	3	99	84,455
7/21	3	6	14	35	19	4	2	0	9	12	6	3	3	2	1	4	122	84,577
7/22	0	16	77	68	22	8	10	7	28	4	1	0	0	0	0	3	232	84,809
7/23	0	9	22	13	8	8	8	5	16	3	2	3	2	0	2	1	98	84,907
7/24	36	69	44	39	17	11	4	2	20	12	0	3	4	2	2	4	263	85,170
7/25	27	198	239	157	74	37	36	16	33	23	12	6	9	9	4	4	872	86,042
7/26	12	138	127	100	38	20	52	31	25	10	7	2	1	3	0	4	567	86,609
7/27	5	25	45	41	8	3	2	5	14	6	1	1	1	3	2	4	165	86,774
7/28	2	18	24	21	3	4	5	1	13	1	4	2	2	0	2	1	100	86,874
7/29	6	41	62	50	13	4	1	3	19	7	3	2	7	6	1	1	219	87,093
7/30	5	51	65	47	15	9	6	3	11	3	2	1	13	10	1	3	245	87,338
7/31	5	41	54	34	3	4	0	1	17	2	2	0	10	10	0	1	181	87,519
8/01	0	13	14	10	0	1	7	6	15	3	0	1	6	4	0	1	75	87,594
8/02	8	39	38	17	5	3	3	3	16	2	3	2	35	29	0	0	196	87,790
8/03	6	11	20	10	7	0	0	1	12	1	1	1	25	18	1	1	109	87,899
8/04	1	8	4	6	4	0	1	0	18	2	0	0	0	1	0	0	38	87,937
8/05	10	71	70	46	18	13	9	1	17	15	7	2	3	2	0	0	281	88,218
8/06	32	151	136	86	26	8	7	0	15	11	5	2	4	0	0	2	484	88,702
8/07	6	56	35	20	23	0	5	3	35	5	2	1	2	1	0	0	180	88,882
8/08	0	9	13	11	5	2	0	0	38	3	1	1	1	0	0	0	70	88,952
8/09	2	0	5	7	2	0	1	1	33	1	0	0	1	0	0	0	35	88,987
8/10	3	9	9	12	3	1	1	0	20	1	1	1	0	0	0	0	53	89,040
8/11	3	9	12	19	6	2	4	1	42	0	0	0	1	0	0	0	80	89,120
8/12	8	1	1	2	0	1	1	0	49	0	1	0	0	1	0	0	36	89,156
8/13	29	7	18	8	2	7	1	1	9	2	0	0	2	1	1	0	85	89,241
8/14	5	2	5	10	1	0	2	0	2	5	0	1	5	0	0	2	40	89,281
8/15	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4	89,285
8/16	4	1	4	3	0	0	0	0	7	1	1	0	0	0	0	0	19	89,304
8/17	2	3	0	0	0	0	0	0	32	1	0	1	23	0	0	0	48	89,352
8/18	0	4	3	2	1	1	3	0	10	1	0	0	0	0	0	0	21	89,373
8/19	0	2	10	3	1	1	0	0	11	0	0	0	0	0	0	0	25	89,398
8/20	3	4	9	9	1	0	1	0	20	0	1	0	29	0	0	0	66	89,464
8/21	0	17	18	11	2	0	3	1	23	1	1	0	13	0	0	0	79	89,543
8/22	3	5	6	2	0	0	4	1	9	2	2	1	9	0	0	0	38	89,581
8/23	45	187	149	73	19	5	4	3	7	11	4	3	14	0	0	0	524	90,105
8/24	10	27	66	44	11	10	6	4	39	5	7	2	2	0	0	0	218	90,323
Total	1,649	6,931	14,396	19,732	15,104	9,977	6,618	2,764	4,133	3,351	1,827	1,609	1,369	852	587	611	90,323	

Appendix D.1. Drift gillnet catch by range, date, session, drift number, mesh, and species,
Nushagak River sonar project, 1995.

Range 1													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/10	1	1	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/10	1	2	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	1	9	6.000	2.2	0.36	.	.	.	.	.	.	.	.
6/10	1	10	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/10	1	17	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	1	18	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	25	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	26	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/10	3	33	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/10	3	34	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	41	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/10	3	42	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/11	1	49	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/11	1	50	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/11	1	57	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/11	1	58	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/11	1	65	5.125	2.6	0.44	.	.	.	.	.	.	.	.
6/11	1	66	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	73	6.000	2.4	0.41	.	.	.	.	.	.	.	.
6/11	3	74	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	81	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	82	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/11	3	89	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	90	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/12	1	97	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/12	1	98	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/12	1	105	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/12	1	106	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/12	1	113	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/12	1	114	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/12	3	121	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/12	3	122	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/12	3	129	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/12	3	130	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/12	3	137	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/12	3	138	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	145	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	146	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/13	1	153	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/13	1	154	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	161	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	162	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/13	3	169	8.125	2.4	0.41	.	.	.	.	.	.	.	.
6/13	3	170	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	3	177	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	3	178	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/13	3	185	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/13	3	186	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/14	1	193	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	194	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	201	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/14	1	202	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/14	1	209	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	210	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/14	3	217	5.125	2.5	0.42
6/14	3	218	5.125	2.5	0.42
6/14	3	225	6.000	2.5	0.42
6/14	3	226	6.000	2.6	0.43

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Appendix D.1. (p 2 of 63)

Range 1													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/14	3	233	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/14	3	234	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	1	241	8.125	2.5	0.41	3	3	.	.	.	.	.	.
6/15	1	242	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/15	1	249	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	1	250	5.125	2.6	0.44	1	1	.	.	.	.	.	.
6/15	1	257	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/15	1	258	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/15	3	265	6.000	2.5	0.41	1	1	.	.	.	.	.	.
6/15	3	266	6.000	2.5	0.41	1	1	.	.	.	.	.	.
6/15	3	273	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/15	3	274	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	3	281	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	3	282	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/16	1	289	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	1	290	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/16	1	297	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/16	1	298	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/16	1	305	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/16	1	306	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	313	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/16	3	314	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	321	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	322	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	329	6.000	2.5	0.41	2	1	.	1	.	.	.	.
6/16	3	330	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	337	6.000	2.7	0.45	.	.	.	.	.	.	.	.
6/17	1	338	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/17	1	345	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	346	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/17	1	353	5.125	2.5	0.42	2	2	.	.	.	.	.	.
6/17	1	354	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/17	3	361	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/17	3	362	5.125	2.5	0.41	1	1	.	.	.	.	.	.
6/17	3	369	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	3	370	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	3	377	8.125	2.9	0.48	.	.	.	.	.	.	.	.
6/17	3	378	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	385	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	386	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/18	1	393	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	394	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	401	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	402	5.125	2.5	0.42	1	.	.	1	.	.	.	.
6/18	3	409	5.125	2.6	0.44	.	.	.	.	.	.	.	.
6/18	3	410	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	417	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	418	6.000	2.5	0.42	1	.	1	.	.	.	.	.
6/18	3	425	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	426	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/19	1	433	8.125	2.6	0.44	.	.	.	.	.	.	.	.
6/19	1	434	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	441	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	442	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	449	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	450	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	457	6.000	2.5	0.41	1	1	.	.	.	.	.	.
6/19	2	458	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	465	8.125	2.0	0.34	1	1	.	.	.	.	.	.
6/19	2	466	8.125	2.5	0.41	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 3 of 63)

Range 1												
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
6/19	2	473	5.125	2.5	0.42	1	.	1	.	.	.	.
6/19	2	474	5.125	2.5	0.42	1	1	.	.	.	.	.
6/19	3	481	5.125	2.4	0.40	.	.	.	.	.	.	.
6/19	3	482	5.125	2.5	0.42	1	1	.	.	.	.	.
6/19	3	489	8.125	2.7	0.45	.	.	.	.	.	.	.
6/19	3	490	8.125	2.5	0.42	.	.	.	.	.	.	.
6/19	3	497	6.000	2.1	0.36	.	.	.	.	.	.	.
6/19	3	498	6.000	2.4	0.41	2	2	.	.	.	.	.
6/20	1	505	6.000	2.5	0.42	.	.	.	.	.	.	.
6/20	1	506	6.000	2.4	0.40	.	.	.	.	.	.	.
6/20	1	513	8.125	2.5	0.42	.	.	.	.	.	.	.
6/20	1	514	8.125	2.5	0.42	.	.	.	.	.	.	.
6/20	1	521	5.125	2.1	0.35	1	1	.	.	.	.	.
6/20	1	522	5.125	2.7	0.45	.	.	.	.	.	.	.
6/20	2	529	5.125	2.5	0.42	2	2	.	.	.	.	.
6/20	2	530	5.125	2.5	0.42	.	.	.	.	.	.	.
6/20	2	537	6.000	2.5	0.42	.	.	.	.	.	.	.
6/20	2	538	6.000	2.5	0.42	.	.	.	.	.	.	.
6/20	2	545	8.125	2.5	0.42	.	.	.	.	.	.	.
6/20	2	546	8.125	2.5	0.42	.	.	.	.	.	.	.
6/20	3	553	8.125	2.4	0.40	.	.	.	.	.	.	.
6/20	3	554	8.125	2.5	0.41	.	.	.	.	.	.	.
6/20	3	561	5.125	2.6	0.44	.	.	.	.	.	.	.
6/20	3	562	5.125	2.5	0.42	.	.	.	.	.	.	.
6/20	3	569	6.000	2.6	0.43	.	.	.	.	.	.	.
6/20	3	570	6.000	2.5	0.42	2	.	.	2	.	.	.
6/21	1	577	6.000	2.6	0.43	.	.	.	.	.	.	.
6/21	1	578	6.000	2.5	0.41	.	.	.	.	.	.	.
6/21	1	585	5.125	2.5	0.42	.	.	.	.	.	.	.
6/21	1	586	5.125	2.5	0.42	.	.	.	.	.	.	.
6/21	1	593	8.125	2.5	0.42	.	.	.	.	.	.	.
6/21	1	594	8.125	2.5	0.42	.	.	.	.	.	.	.
6/21	2	601	8.125	2.5	0.42	.	.	.	.	.	.	.
6/21	2	602	8.125	2.5	0.42	.	.	.	.	.	.	.
6/21	2	609	6.000	2.5	0.42	.	.	.	.	.	.	.
6/21	2	610	6.000	2.5	0.42	1	.	.	1	.	.	.
6/21	2	617	5.125	2.5	0.42	1	.	.	1	.	.	.
6/21	2	618	5.125	2.5	0.42	.	.	.	.	.	.	.
6/21	3	625	5.125	2.5	0.42	.	.	.	.	.	.	.
6/21	3	626	5.125	2.6	0.43	.	.	.	.	.	.	.
6/21	3	633	6.000	2.5	0.42	.	.	.	.	.	.	.
6/21	3	634	6.000	2.5	0.42	.	.	.	.	.	.	.
6/21	3	641	8.125	2.5	0.42	.	.	.	.	.	.	.
6/21	3	642	8.125	2.5	0.42	.	.	.	.	.	.	.
6/22	1	649	8.125	2.6	0.43	.	.	.	.	.	.	.
6/22	1	650	8.125	2.5	0.41	.	.	.	.	.	.	.
6/22	1	657	5.125	2.7	0.44	.	.	.	.	.	.	.
6/22	1	658	5.125	2.5	0.41	.	.	.	.	.	.	.
6/22	1	665	6.000	2.6	0.43	1	1	.	.	.	.	.
6/22	1	666	6.000	2.5	0.42	.	.	.	.	.	.	.
6/22	2	673	6.000	2.5	0.42	.	.	.	.	.	.	.
6/22	2	674	6.000	2.5	0.42	.	.	.	.	.	.	.
6/22	2	681	8.125	2.5	0.42	.	.	.	.	.	.	.
6/22	2	682	8.125	2.5	0.42	.	.	.	.	.	.	.
6/22	2	689	5.125	2.5	0.42	.	.	.	.	.	.	.
6/22	2	690	5.125	2.5	0.42	1	1	.	.	.	.	.
6/22	3	697	5.125	2.5	0.41
6/22	3	698	5.125	2.5	0.42
6/22	3	705	8.125	2.5	0.42
6/22	3	706	8.125	2.5	0.42

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Appendix D.1. (p 4 of 63)

Range 1													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/22	3	713	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/22	3	714	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/23	1	721	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/23	1	722	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/23	1	729	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	1	730	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	1	737	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	1	738	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	745	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/23	2	746	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	753	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	754	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/23	2	761	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	762	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	3	769	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/23	3	770	5.125	2.5	0.41	4	1	.	3	.	.	.	.
6/23	3	777	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/23	3	778	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	3	785	6.000	2.4	0.41	.	.	.	.	.	.	.	.
6/23	3	786	6.000	2.5	0.41	4	.	.	4	.	.	.	.
6/24	1	793	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/24	1	794	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	801	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	802	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	809	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	810	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/24	2	817	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	818	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/24	2	825	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	826	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	833	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	834	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	841	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/24	3	842	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	849	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	850	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	857	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	858	6.000	2.5	0.42	4	.	.	4	.	.	.	.
6/25	1	865	6.000	2.5	0.42	8	1	4	3	.	.	.	.
6/25	1	866	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/25	1	873	5.125	2.5	0.42	1	.	1	.	.	.	.	.
6/25	1	874	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	881	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	882	8.125	2.5	0.42	1	.	.	1	.	.	.	.
6/25	2	889	8.125	2.5	0.42	1	.	1	.	.	.	.	.
6/25	2	890	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	2	897	5.125	2.5	0.42	8	2	.	6	.	.	.	.
6/25	2	898	5.125	2.5	0.42	2	.	1	1	.	.	.	.
6/25	2	905	6.000	2.5	0.41	6	2	1	3	.	.	.	.
6/25	2	906	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/25	3	913	6.000	2.5	0.42	10	1	1	8	.	.	.	.
6/25	3	914	6.000	2.5	0.41	2	.	1	1	.	.	.	.
6/25	3	921	8.125	2.5	0.42	4	1	1	2	.	.	.	.
6/25	3	922	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	3	929	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	3	930	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/26	1	937	5.125	2.5	0.42	3	3	.	.	.	.	.	.
6/26	1	938	5.125	2.5	0.42	1	.	1	.	.	.	.	.
6/26	1	945	6.000	2.5	0.42	13	.	3	10	.	.	.	.
6/26	1	946	6.000	2.5	0.42	6	.	2	4	.	.	.	.

-Continued-

Appendix D.1. (p 5 of 63)

Range 1													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/26	1	953	8.125	2.5	0.41	1	1	.	.	.	.	.	.
6/26	1	954	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/28	1	1,039	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,040	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,047	6.000	2.5	0.41	3	.	.	3	.	.	.	.
6/28	1	1,048	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,055	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,056	5.125	2.5	0.42	1	.	1	.	.	.	.	.
6/28	2	1,063	5.125	2.5	0.42	2	1	1	.	.	.	.	.
6/28	2	1,064	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	2	1,071	6.000	2.5	0.41	5	.	5	.	.	.	.	.
6/28	2	1,072	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/28	2	1,079	6.000	2.5	0.42	1	.	1	.	.	.	.	.
6/28	2	1,080	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/28	3	1,087	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	3	1,088	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/28	3	1,095	6.000	2.5	0.42	7	.	.	7	.	.	.	.
6/28	3	1,096	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/28	3	1,103	5.125	2.4	0.40	6	2	1	3	.	.40	.	.
6/28	3	1,104	5.125	2.5	0.41	4	1	3	.	.	.	.	.
6/29	1	1,111	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,112	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,119	6.000	2.5	0.41	1	1	.	.	.	.	.	.
6/29	1	1,120	6.000	2.7	0.44	.	.	.	.	.	.	.	.
6/29	1	1,127	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/29	1	1,128	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,135	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,136	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,143	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/29	2	1,144	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,151	6.000	2.5	0.42	1	.	1	.	.	.	.	.
6/29	2	1,152	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/29	3	1,159	6.000	2.5	0.42	5	.	1	4	.	.	.	.
6/29	3	1,160	6.000	2.5	0.42	2	.	2	.	.	.	.	.
6/29	3	1,167	5.125	2.5	0.42	6	.	6	.	.	.	.	.
6/29	3	1,168	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/29	3	1,175	8.125	2.5	0.42	2	.	1	1	.	.	.	.
6/29	3	1,176	8.125	2.5	0.42	2	1	.	1	.	.	.	.
6/30	1	1,183	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/30	1	1,184	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	1	1,191	5.125	2.5	0.41	4	2	2	.	.	.	.	.
6/30	1	1,192	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/30	1	1,199	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/30	1	1,200	6.000	2.5	0.42	2	.	2	.	.	.	.	.
6/30	2	1,207	6.000	2.5	0.41	3	.	3	.	.	.	.	.
6/30	2	1,208	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/30	2	1,215	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	2	1,216	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	2	1,223	5.125	2.6	0.43	1	.	1	.	.	.	.	.
6/30	2	1,224	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	3	1,231	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	3	1,232	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/30	3	1,239	6.000	2.5	0.42	1	.	1	.	.	.	.	.
6/30	3	1,240	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/30	3	1,247	8.125	2.5	0.42	3	.	3	.	.	.	.	.
6/30	3	1,248	8.125	2.5	0.42	1	.	1	.	.	.	.	.
7/01	1	1,255	8.125	2.7	0.44	.	.	.	.	.	.	.	.
7/01	1	1,256	8.125	2.5	0.41	1	.	1	.	.	.	.	.
7/01	1	1,263	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/01	1	1,264	6.000	2.5	0.41	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 6 of 63)

Range 1													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/01	1	1,271	5.125	2.5	0.42	4	.	4	.	.	.	.	.
7/01	1	1,272	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/01	2	1,279	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	2	1,280	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	2	1,287	6.000	2.5	0.42	5	.	2	3	.	.	.	.
7/01	2	1,288	6.000	2.6	0.43	1	1	.	.	.	.	.	.
7/01	2	1,295	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/01	2	1,296	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,303	8.125	2.5	0.42	1	.	.	1	.	.	.	.
7/01	3	1,304	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/01	3	1,311	6.000	2.5	0.42	4	.	3	1	.	.	.	.
7/01	3	1,312	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,319	5.125	2.5	0.42	7	.	3	4	.	.	.	.
7/01	3	1,320	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	1	1,327	5.125	2.5	0.41	4	1	.	3	.	.	.	.
7/02	1	1,328	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/02	1	1,335	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/02	1	1,336	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	1	1,343	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/02	1	1,344	6.000	2.5	0.41	6	2	.	4	.	.	.	.
7/02	2	1,351	6.000	2.5	0.42	3	.	2	1	.	.	.	.
7/02	2	1,352	6.000	2.5	0.41	1	.	.	1	.	.	.	.
7/02	2	1,359	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/02	2	1,360	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	2	1,367	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	2	1,368	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	3	1,375	8.125	2.5	0.41	3	1	2	.	.	.	.	.
7/02	3	1,383	6.000	2.5	0.41	2	1	.	1	.	.	.	.
7/02	3	1,384	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/02	3	1,391	8.125	2.5	0.42	5	.	3	2	.	.	.	.
7/02	3	1,392	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	1	1,399	5.125	2.5	0.42	5	.	2	3	.	.	.	.
7/03	1	1,400	5.125	2.5	0.42	9	.	7	2	.	.	.	.
7/03	1	1,407	6.000	2.5	0.42	6	.	.	6	.	.	.	.
7/03	1	1,408	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/03	1	1,415	8.125	2.5	0.42	1	.	1	.	.	.	.	.
7/03	1	1,416	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	2	1,423	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	2	1,424	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/03	2	1,431	6.000	2.5	0.42	5	.	1	4	.	.	.	.
7/03	2	1,432	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/03	2	1,439	5.125	2.5	0.42	8	1	2	5	.	.	.	.
7/03	2	1,440	5.125	2.5	0.42	3	.	2	1	.	.	.	.
7/03	3	1,447	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/03	3	1,448	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	3	1,455	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	3	1,456	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	3	1,463	6.000	2.5	0.42	3	.	1	2	.	.	.	.
7/03	3	1,464	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/04	1	1,471	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/04	1	1,472	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/04	1	1,479	5.125	2.5	0.42	2	.	2	.	.	.	.	.
7/04	1	1,480	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/04	1	1,487	8.125	2.5	0.42	2	.	.	2	.	.	.	.
7/04	1	1,488	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,495	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,496	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,503	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,504	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,511	5.125	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 7 of 63)

Range 1												
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
7/04	2	1,512	5.125	2.5	0.41	2	.	1	1	.	.	.
7/04	3	1,519	5.125	2.5	0.42	.	.	.	.	.	.	.
7/04	3	1,520	5.125	2.5	0.42	2	.	.	2	.	.	.
7/04	3	1,527	6.000	2.5	0.42	4	.	.	4	.	.	.
7/04	3	1,528	6.000	2.5	0.42	.	.	.	.	.	.	.
7/04	3	1,535	8.125	2.5	0.42	1	.	.	1	.	.	.
7/04	3	1,536	8.125	2.5	0.41	.	.	.	.	.	.	.
7/05	1	1,543	8.125	2.6	0.44	.	.	.	.	.	.	.
7/05	1	1,544	8.125	2.5	0.42	.	.	.	.	.	.	.
7/05	1	1,551	6.000	2.5	0.42	.	.	.	.	.	.	.
7/05	1	1,552	6.000	2.5	0.42	.	.	.	.	.	.	.
7/05	1	1,559	5.125	2.5	0.42	.	.	.	.	.	.	.
7/05	1	1,560	5.125	2.5	0.42	.	.	.	.	.	.	.
7/05	2	1,567	5.125	2.5	0.42	.	.	.	.	.	.	.
7/05	2	1,568	5.125	2.5	0.42	.	.	.	.	.	.	.
7/05	2	1,575	6.000	2.5	0.41	3	.	.	3	.	.	.
7/05	2	1,576	6.000	2.5	0.42	.	.	.	.	.	.	.
7/05	2	1,583	8.125	2.5	0.42	.	.	.	.	.	.	.
7/05	2	1,584	8.125	2.5	0.41	.	.	.	.	.	.	.
7/05	3	1,591	8.125	2.6	0.43	2	.	.	2	.	.	.
7/05	3	1,592	8.125	2.5	0.42	.	.	.	.	.	.	.
7/05	3	1,599	5.125	3.0	0.50	.	.	.	.	.	.	.
7/05	3	1,600	5.125	2.5	0.42	1	.	1	.	.	.	.
7/05	3	1,607	6.000	2.5	0.42	1	.	.	1	.	.	.
7/05	3	1,608	6.000	2.5	0.42	1	.	1	.	.	.	.
7/06	1	1,615	6.000	2.5	0.42	.	.	.	.	.	.	.
7/06	1	1,616	6.000	2.5	0.42	.	.	.	.	.	.	.
7/06	1	1,623	8.125	2.5	0.42	.	.	.	.	.	.	.
7/06	1	1,624	8.125	2.5	0.42	.	.	.	.	.	.	.
7/06	1	1,631	5.125	2.5	0.42	1	.	.	1	.	.	.
7/06	1	1,632	5.125	2.5	0.42	.	.	.	.	.	.	.
7/06	2	1,639	5.125	2.5	0.41	.	.	.	.	.	.	.
7/06	2	1,640	5.125	2.5	0.41	1	.	1	.	.	.	.
7/06	2	1,647	6.000	2.5	0.42	.	.	.	.	.	.	.
7/06	2	1,648	6.000	2.5	0.42	.	.	.	.	.	.	.
7/06	2	1,655	8.125	2.5	0.42	.	.	.	.	.	.	.
7/06	2	1,656	8.125	2.5	0.42	.	.	.	.	.	.	.
7/06	3	1,663	8.125	2.5	0.42	1	1	.	.	.	.	.
7/06	3	1,664	8.125	2.5	0.41	.	.	.	.	.	.	.
7/06	3	1,671	5.125	2.7	0.44	1	.	1	.	.	.	.
7/06	3	1,672	5.125	2.5	0.42	3	.	.	3	.	.	.
7/06	3	1,679	6.000	2.5	0.42	1	.	1	.	.	.	.
7/06	3	1,680	6.000	2.5	0.42	.	.	.	.	.	.	.
7/07	1	1,687	6.000	2.5	0.42	.	.	.	.	.	.	.
7/07	1	1,688	6.000	2.5	0.42	.	.	.	.	.	.	.
7/07	1	1,695	5.125	2.5	0.42	1	.	1	.	.	.	.
7/07	1	1,696	5.125	2.5	0.42	4	.	4	.	.	.	.
7/07	1	1,703	8.125	2.5	0.42	.	.	.	.	.	.	.
7/07	1	1,704	8.125	2.6	0.43	.	.	.	.	.	.	.
7/07	2	1,711	8.125	2.5	0.42	.	.	.	.	.	.	.
7/07	2	1,712	8.125	2.5	0.42	.	.	.	.	.	.	.
7/07	2	1,719	5.125	2.5	0.42	4	.	2	2	.	.	.
7/07	2	1,720	5.125	2.5	0.42	1	.	1	.	.	.	.
7/07	2	1,725	6.000	2.5	0.42	6	.	1	5	.	.	.
7/07	2	1,726	6.000	2.5	0.42	1	1	.	.	.	.	.
7/07	3	1,731	6.000	2.5	0.42	1	1	.	.	.	.	.
7/07	3	1,732	6.000	2.5	0.41
7/07	3	1,737	5.125	2.5	0.42
7/07	3	1,738	5.125	2.5	0.42
7/07	3	1,743	8.125	2.5	0.42

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Appendix D.1. (p 8 of 63)

Range 1													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/07	3	1,744	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	1	1,749	8.125	2.6	0.44	2	.	2	.	.	.	.	.
7/08	1	1,750	8.125	2.5	0.42	2	.	2	.	.	.	.	.
7/08	1	1,755	6.000	2.5	0.41	8	.	8	.	.	.	.	.
7/08	1	1,756	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/08	1	1,761	5.125	2.5	0.42	5	.	5	.	.	.	.	.
7/08	1	1,762	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	2	1,767	5.125	2.5	0.42	4	.	4	.	.	.	.	.
7/08	2	1,768	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	2	1,773	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/08	2	1,774	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/08	2	1,779	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	2	1,780	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	3	1,785	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	3	1,786	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	3	1,791	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	3	1,792	5.125	2.5	0.42	6	.	6	.	.	.	.	.
7/08	3	1,797	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/08	3	1,798	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/09	1	1,803	5.125	2.5	0.41	14	.	14	.	.	.	.	.
7/09	1	1,804	5.125	2.5	0.42	2	.	2	.	.	.	.	.
7/09	1	1,811	6.000	2.5	0.42	2	.	2	.	.	.	.	.
7/09	1	1,812	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/09	1	1,819	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	1	1,820	8.125	2.5	0.42	1	.	1	.	.	.	.	.
7/09	2	1,827	8.125	2.5	0.42	2	.	2	.	.	.	.	.
7/09	2	1,828	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	2	1,833	6.000	2.5	0.41	2	.	2	.	.	.	.	.
7/09	2	1,834	6.000	2.5	0.42	3	.	3	.	.	.	.	.
7/09	2	1,839	5.125	2.5	0.42	4	.	4	.	.	.	.	.
7/09	2	1,840	5.125	2.5	0.42	3	.	2	1	.	.	.	.
7/09	3	1,845	5.125	2.5	0.41	6	.	6	.	.	.	.	.
7/09	3	1,846	5.125	2.5	0.42	10	.	10	.	.	.	.	.
7/09	3	1,851	8.125	2.5	0.42	1	.	1	.	.	.	.	.
7/09	3	1,852	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	3	1,857	6.000	2.6	0.43	1	.	1	.	.	.	.	.
7/09	3	1,858	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/10	1	1,863	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/10	1	1,864	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/10	1	1,871	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/10	1	1,872	5.125	2.5	0.42	4	.	4	.	.	.	.	.
7/10	1	1,879	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	1	1,880	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/10	2	1,887	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/10	2	1,888	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/10	2	1,895	5.125	2.5	0.41	1	.	1	.	.	.	.	.
7/10	2	1,896	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	2	1,903	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/10	2	1,904	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/10	3	1,911	6.000	2.5	0.41	1	.	1	.	.	.	.	.
7/10	3	1,912	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/10	3	1,919	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/10	3	1,920	5.125	2.6	0.44	1	.	.	1	.	.	.	.
7/10	3	1,927	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	3	1,928	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	1	1,935	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	1	1,936	8.125	2.5	0.41
7/11	1	1,943	5.125	2.5	0.42	1	.	1
7/11	1	1,944	5.125	2.5	0.42
7/11	1	1,951	6.000	2.5	0.42

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Appendix D.1. (p 9 of 63)

Range 1													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/11	1	1,952	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,959	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/11	2	1,960	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,967	5.125	2.5	0.42	2	.	1	1	.	.	.	.
7/11	2	1,968	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,975	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,976	8.125	2.5	0.42	1	.	.	1	.	.	.	.
7/11	3	1,983	8.125	2.5	0.41	1	.	1	.	.	.	.	.
7/11	3	1,984	8.125	2.5	0.42	1	.	.	1	.	.	.	.
7/11	3	1,991	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	3	1,992	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/11	3	1,999	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/11	3	2,000	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,007	6.000	2.6	0.44	1	1	.	.	.	.	.	.
7/12	1	2,008	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/12	1	2,015	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,016	8.125	2.5	0.42	2	1	.	.	.	.	.	1
7/12	1	2,023	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,024	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,031	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/12	2	2,032	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/12	2	2,039	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/12	2	2,040	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,047	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/12	2	2,048	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,055	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,056	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,063	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,064	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,071	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,072	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	1	2,079	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	1	2,080	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/13	1	2,087	5.125	2.5	0.41	1	.	1	.	.	.	.	.
7/13	1	2,088	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/13	1	2,095	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	1	2,096	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,103	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,104	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/13	2	2,111	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,112	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,119	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,120	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,127	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,128	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/13	3	2,135	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/13	3	2,136	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/13	3	2,143	8.125	2.7	0.44	.	.	.	.	.	.	.	.
7/13	3	2,144	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,151	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,152	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,159	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/14	1	2,160	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,167	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,168	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/14	2	2,175	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/14	2	2,176	6.000	2.5	0.42
7/14	2	2,183	5.125	2.5	0.42
7/14	2	2,184	5.125	2.5	0.41
7/14	2	2,191	8.125	2.5	0.42

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Appendix D.1. (p 10 of 63)

Range 1													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/14	2	2,192	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/14	3	2,199	5.125	2.5	0.41	1	1	.	.	.	.	.	.
7/14	3	2,200	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,207	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,208	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,215	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,216	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,223	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/15	1	2,224	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/15	1	2,231	6.000	2.6	0.43	1	.	.	1	.	.	.	.
7/15	1	2,232	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,239	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,240	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,247	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,248	5.125	2.7	0.45	1	.	1	.	.	.	.	.
7/15	3	2,255	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,256	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/15	3	2,263	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,264	6.000	2.7	0.44	.	.	.	.	.	.	.	.
7/16	1	2,271	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/16	1	2,272	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/16	1	2,279	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,280	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,287	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/16	1	2,288	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,295	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,296	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,303	6.000	2.7	0.45	1	.	1	.	.	.	.	.
7/16	2	2,304	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/16	2	2,311	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,312	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,319	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,320	5.125	2.5	0.41	2	.	1	.	.	.	1	.
7/17	1	2,327	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,328	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,335	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/17	1	2,336	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/17	2	2,343	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/17	2	2,344	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/17	2	2,351	5.125	2.7	0.44	.	.	.	.	.	.	.	.
7/17	2	2,352	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/17	2	2,359	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	2	2,360	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,367	8.125	2.7	0.45	.	.	.	.	.	.	.	.
7/18	1	2,368	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,375	6.000	2.7	0.44	.	.	.	.	.	.	.	.
7/18	1	2,376	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/18	1	2,383	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,384	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/18	3	2,391	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,392	5.125	2.6	0.44	.	.	.	.	.	.	.	.
7/18	3	2,399	8.125	2.8	0.47	1	.	.	1	.	.	.	.
7/18	3	2,400	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,407	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,408	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/19	1	2,415	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,416	6.000	2.5	0.42
7/19	1	2,423	5.125	2.5	0.42
7/19	1	2,424	5.125	2.5	0.41
7/19	1	2,431	8.125	2.5	0.42

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Appendix D.1. (p 11 of 63)

Range 1												
Date	Session ^a	Drift	Mesh	Fishing	Fathom	Species						
		Number		Time (min)	Hours	Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
7/19	1	2,432	8.125	2.5	0.42	.	.	.	.	.	.	.
7/19	3	2,439	8.125	2.5	0.41	.	.	.	.	.	.	.
7/19	3	2,440	8.125	2.5	0.41	.	.	.	.	.	.	.
7/19	3	2,447	6.000	2.5	0.42	.	.	.	.	.	.	.
7/19	3	2,448	6.000	2.4	0.41	.	.	.	.	.	.	.
7/19	3	2,455	5.125	2.5	0.42	.	.	.	.	.	.	.
7/19	3	2,456	5.125	2.5	0.42	.	.	.	.	.	.	.
7/20	1	2,463	5.125	2.6	0.43	.	.	.	.	.	.	.
7/20	1	2,464	5.125	2.6	0.43	.	.	.	.	.	.	.
7/20	1	2,471	8.125	2.5	0.42	.	.	.	.	.	.	.
7/20	1	2,472	8.125	2.5	0.42	.	.	.	.	.	.	.
7/20	1	2,479	6.000	2.6	0.43	.	.	.	.	.	.	.
7/20	1	2,480	6.000	2.5	0.41	2	.	2	.	.	.	.
7/20	3	2,487	6.000	2.5	0.42	.	.	.	.	.	.	.
7/20	3	2,488	6.000	2.6	0.43	.	.	.	.	.	.	.
7/20	3	2,495	8.125	2.5	0.42	.	.	.	.	.	.	.
7/20	3	2,496	8.125	2.5	0.41	.	.	.	.	.	.	.
7/20	3	2,503	5.125	2.5	0.42	.	.	.	.	.	.	.
7/20	3	2,504	5.125	2.5	0.42	1	.	1	.	.	.	.
7/21	1	2,511	5.125	2.5	0.42	.	.	.	.	.	.	.
7/21	1	2,512	5.125	2.5	0.42	.	.	.	.	.	.	.
7/21	1	2,519	6.000	2.5	0.41	.	.	.	.	.	.	.
7/21	1	2,520	6.000	2.5	0.42	.	.	.	.	.	.	.
7/21	1	2,527	8.125	2.5	0.41	.	.	.	.	.	.	.
7/21	1	2,528	8.125	2.5	0.42	.	.	.	.	.	.	.
7/21	3	2,535	8.125	2.5	0.42	.	.	.	.	.	.	.
7/21	3	2,536	8.125	2.5	0.42	.	.	.	.	.	.	.
7/21	3	2,543	6.000	2.5	0.42	.	.	.	.	.	.	.
7/21	3	2,544	6.000	2.5	0.42	.	.	.	.	.	.	.
7/21	3	2,551	5.125	2.6	0.43	1	1	.	.	.	.	.
7/21	3	2,552	5.125	2.5	0.42	.	.	.	.	.	.	.
7/22	1	2,559	5.125	2.6	0.43	.	.	.	.	.	.	.
7/22	1	2,560	5.125	2.5	0.42	1	.	.	.	1	.	.
7/22	1	2,567	8.125	2.5	0.41	.	.	.	.	.	.	.
7/22	1	2,568	8.125	2.5	0.42	.	.	.	.	.	.	.
7/22	1	2,575	6.000	2.5	0.42	.	.	.	.	.	.	.
7/22	1	2,576	6.000	2.5	0.42	.	.	.	.	.	.	.
7/22	3	2,583	6.000	2.5	0.42	.	.	.	.	.	.	.
7/22	3	2,584	6.000	2.5	0.42	1	.	1	.	.	.	.
7/22	3	2,591	5.125	2.5	0.42	3	.	1	.	.	.	2
7/22	3	2,592	5.125	2.5	0.41	.	.	.	.	.	.	.
7/22	3	2,599	8.125	2.5	0.41	.	.	.	.	.	.	.
7/22	3	2,600	8.125	2.5	0.42	.	.	.	.	.	.	.
7/23	1	2,607	8.125	2.5	0.42	.	.	.	.	.	.	.
7/23	1	2,608	8.125	2.5	0.41	.	.	.	.	.	.	.
7/23	1	2,615	5.125	2.5	0.42	.	.	.	.	.	.	.
7/23	1	2,616	5.125	2.6	0.43	.	.	.	.	.	.	.
7/23	1	2,623	6.000	2.5	0.41	.	.	.	.	.	.	.
7/23	1	2,624	6.000	2.5	0.41	.	.	.	.	.	.	.
7/23	3	2,631	6.000	2.5	0.42	.	.	.	.	.	.	.
7/23	3	2,632	6.000	2.5	0.42	.	.	.	.	.	.	.
7/23	3	2,639	8.125	2.6	0.43	.	.	.	.	.	.	.
7/23	3	2,640	8.125	2.5	0.41	.	.	.	.	.	.	.
7/23	3	2,647	5.125	2.5	0.42	.	.	.	.	.	.	.
7/23	3	2,648	5.125	2.5	0.42	1	.	1	.	.	.	.
7/24	1	2,655	5.125	2.4	0.40	1	1	.	.	.	.	.
7/24	1	2,656	5.125	2.5	0.41
7/24	1	2,663	6.000	2.5	0.42
7/24	1	2,664	6.000	2.5	0.42
7/24	1	2,671	8.125	2.6	0.44

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Appendix D.1. (p 12 of 63)

Range 1													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/24	1	2,672	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/24	3	2,679	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/24	3	2,680	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	3	2,687	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	3	2,688	5.125	2.5	0.42	2	.	.	.	.	.	.	2
7/24	3	2,695	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/24	3	2,696	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/25	1	2,703	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,704	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,711	5.125	2.7	0.44	2	.	2	.	.	.	.	.
7/25	1	2,712	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,719	8.125	2.5	0.42	1	.	.	1	.	.	.	.
7/25	1	2,720	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	3	2,727	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	3	2,728	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	3	2,735	8.125	2.5	0.42	2	.	.	.	.	2	.	.
7/25	3	2,736	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	3	2,743	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	3	2,744	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/26	1	2,751	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/26	1	2,752	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/26	1	2,753	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/26	1	2,763	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/26	1	2,764	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	1	2,765	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,775	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,776	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,777	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/26	3	2,787	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/26	3	2,788	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/26	3	2,789	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/27	1	2,799	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/27	1	2,800	5.125	2.5	0.42	1	.	.	.	.	1	.	.
7/27	1	2,801	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/27	1	2,811	6.000	2.6	0.44	1	.	.	.	.	1	.	.
7/27	1	2,812	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	1	2,813	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/27	3	2,823	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/27	3	2,824	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/27	3	2,825	6.000	2.5	0.42	1	.	.	.	.	1	.	.
7/27	3	2,835	5.125	2.7	0.46	.	.	.	.	.	.	.	.
7/27	3	2,836	5.125	2.5	0.42	2	.	1	.	.	1	.	.
7/27	3	2,837	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/28	1	2,847	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,848	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,849	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/28	1	2,859	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,860	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,861	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,871	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,872	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/28	3	2,873	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/28	3	2,883	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,884	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,885	5.125	3.0	0.50	.	.	.	.	.	.	.	.
7/29	1	2,895	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,896	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,897	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,907	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,908	6.000	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 13 of 63)

Range 1													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/29	1	2,909	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,919	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,920	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,921	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/29	3	2,931	5.125	2.5	0.42	2	1	1	.	.	.	.	.
7/29	3	2,932	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,933	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,943	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,944	5.125	2.7	0.45	.	.	.	.	.	.	.	.
7/30	1	2,945	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,955	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,956	6.000	2.8	0.46	.	.	.	.	.	.	.	.
7/30	1	2,957	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,967	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/30	3	2,968	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/30	3	2,969	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/30	3	2,979	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,980	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,981	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	2,991	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/31	1	2,992	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/31	1	2,993	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/31	1	3,003	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/31	1	3,004	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	3,005	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,015	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,016	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,017	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,027	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,028	5.125	2.5	0.42	4	.	.	.	.	4	.	.
7/31	3	3,029	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,039	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/01	1	3,040	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/01	1	3,041	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,051	6.000	2.7	0.44	.	.	.	.	.	.	.	.
8/01	1	3,052	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,053	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,063	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/01	3	3,064	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,065	6.000	2.7	0.44	.	.	.	.	.	.	.	.
8/01	3	3,075	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,076	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,077	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,087	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,088	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,089	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,099	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,100	6.000	2.9	0.48	.	.	.	.	.	.	.	.
8/02	1	3,101	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,111	6.000	2.7	0.45	.	.	.	.	.	.	.	.
8/02	3	3,112	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/02	3	3,113	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,123	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,124	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,125	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,135	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,136	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/03	1	3,137	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,147	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,148	6.000	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 14 of 63)

Range 1													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
8/03	1	3,149	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,159	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,160	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,161	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,171	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,172	5.125	2.6	0.43	2	.	.	.	.	2	.	.
8/03	3	3,173	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,183	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,184	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,185	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,195	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,196	6.000	2.6	0.43	2	.	1	.	.	1	.	.
8/04	1	3,197	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,207	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,208	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,209	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,219	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,220	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,221	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,231	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/05	1	3,232	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,233	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,243	6.000	2.6	0.44	2	.	.	.	.	2	.	.
8/05	1	3,244	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,245	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,255	6.000	2.6	0.43	2	.	.	.	.	2	.	.
8/05	3	3,256	6.000	2.5	0.41	2	.	.	.	.	2	.	.
8/05	3	3,257	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,267	5.125	2.4	0.41	5	.	.	.	.	5	.	.
8/05	3	3,268	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,269	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	1	3,279	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/06	1	3,280	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/06	1	3,287	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/06	1	3,288	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/06	3	3,295	6.000	2.5	0.42	4	.	.	.	.	4	.	.
8/06	3	3,296	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/06	3	3,303	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	3	3,304	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/07	1	3,311	5.125	2.5	0.42	2	.	.	.	.	2	.	.
8/07	1	3,312	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/07	1	3,319	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/07	1	3,320	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/07	3	3,327	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/07	3	3,328	6.000	2.7	0.44	.	.	.	.	.	.	.	.
8/07	3	3,335	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/07	3	3,336	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/08	1	3,343	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/08	1	3,344	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/08	1	3,351	6.000	2.6	0.44	.	.	.	.	.	.	.	.
8/08	1	3,352	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/08	3	3,359	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/08	3	3,360	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/08	3	3,367	5.125	2.4	0.40	.	.	.	.	.	.	.	.
8/08	3	3,368	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/10	1	3,407	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/10	1	3,408	5.125	2.5	0.42
8/10	1	3,415	6.000	2.6	0.43
8/10	1	3,416	6.000	2.5	0.42
8/10	3	3,423	6.000	2.5	0.42

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Appendix D.1. (p 15 of 63)

Range 1												
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
8/10	3	3,424	6.000	2.5	0.41	.	.	.	.	.	.	.
8/10	3	3,431	5.125	2.5	0.42	.	.	.	.	.	.	.
8/10	3	3,432	5.125	2.5	0.42	.	.	.	.	.	.	.
8/11	1	3,439	5.125	2.5	0.42	.	.	.	.	.	.	.
8/11	1	3,440	5.125	2.5	0.42	2	.	.	.	.	2	.
8/11	1	3,447	6.000	2.5	0.42	.	.	.	.	.	.	.
8/11	1	3,448	6.000	2.5	0.42	.	.	.	.	.	.	.
8/11	3	3,455	6.000	2.5	0.42	1	.	.	.	.	1	.
8/11	3	3,456	6.000	2.5	0.42	1	.	.	.	.	1	.
8/11	3	3,463	5.125	2.5	0.42	.	.	.	.	.	.	.
8/11	3	3,464	5.125	2.5	0.42	.	.	.	.	.	.	.
8/12	1	3,471	5.125	2.5	0.41	.	.	.	.	.	.	.
8/12	1	3,472	5.125	2.5	0.41	.	.	.	.	.	.	.
8/12	1	3,479	6.000	2.5	0.41	.	.	.	.	.	.	.
8/12	1	3,480	6.000	2.5	0.41	.	.	.	.	.	.	.
8/12	3	3,487	6.000	2.5	0.42	.	.	.	.	.	.	.
8/12	3	3,488	6.000	2.5	0.41	.	.	.	.	.	.	.
8/12	3	3,495	5.125	2.6	0.43	.	.	.	.	.	.	.
8/12	3	3,496	5.125	2.6	0.43	.	.	.	.	.	.	.
8/13	1	3,503	5.125	2.5	0.42	.	.	.	.	.	.	.
8/13	1	3,504	5.125	2.5	0.42	.	.	.	.	.	.	.
8/13	1	3,511	6.000	2.5	0.42	.	.	.	.	.	.	.
8/13	1	3,512	6.000	2.5	0.42	.	.	.	.	.	.	.
8/13	3	3,519	6.000	2.5	0.42	.	.	.	.	.	.	.
8/13	3	3,520	6.000	2.5	0.42	.	.	.	.	.	.	.
8/13	3	3,527	5.125	2.5	0.42	1	.	.	.	.	1	.
8/13	3	3,528	5.125	2.5	0.42	.	.	.	.	.	.	.
8/14	1	3,535	5.125	2.5	0.42	.	.	.	.	.	.	.
8/14	1	3,536	5.125	2.5	0.42	.	.	.	.	.	.	.
8/14	1	3,543	6.000	2.6	0.43	.	.	.	.	.	.	.
8/14	1	3,544	6.000	2.5	0.42	.	.	.	.	.	.	.
8/14	3	3,551	6.000	2.5	0.42	.	.	.	.	.	.	.
8/14	3	3,552	6.000	2.5	0.42	1	.	.	.	.	1	.
8/14	3	3,559	5.125	2.5	0.42	.	.	.	.	.	.	.
8/14	3	3,560	5.125	2.5	0.42	.	.	.	.	.	.	.
8/15	1	3,567	5.125	2.5	0.42	.	.	.	.	.	.	.
8/15	1	3,568	5.125	2.5	0.42	.	.	.	.	.	.	.
8/15	1	3,575	6.000	2.5	0.42	.	.	.	.	.	.	.
8/15	1	3,576	6.000	2.5	0.42	.	.	.	.	.	.	.
8/15	3	3,583	6.000	2.5	0.42	.	.	.	.	.	.	.
8/15	3	3,584	6.000	2.5	0.42	.	.	.	.	.	.	.
8/15	3	3,591	5.125	2.5	0.42	.	.	.	.	.	.	.
8/15	3	3,592	5.125	2.5	0.42	.	.	.	.	.	.	.
8/16	1	3,599	5.125	2.6	0.43	.	.	.	.	.	.	.
8/16	1	3,600	5.125	2.5	0.41	.	.	.	.	.	.	.
8/16	1	3,607	6.000	2.5	0.42	1	.	.	.	.	1	.
8/16	1	3,608	6.000	2.5	0.42	.	.	.	.	.	.	.
8/16	3	3,615	6.000	2.5	0.42	.	.	.	.	.	.	.
8/16	3	3,616	6.000	2.5	0.42	.	.	.	.	.	.	.
8/16	3	3,623	5.125	2.5	0.42	.	.	.	.	.	.	.
8/16	3	3,624	5.125	2.5	0.42	.	.	.	.	.	.	.
8/17	1	3,631	5.125	2.5	0.42	.	.	.	.	.	.	.
8/17	1	3,632	5.125	2.5	0.42	.	.	.	.	.	.	.
8/17	1	3,639	6.000	2.6	0.43	.	.	.	.	.	.	.
8/17	1	3,640	6.000	2.5	0.42	.	.	.	.	.	.	.
8/17	3	3,647	6.000	2.5	0.41	.	.	.	.	.	.	.
8/17	3	3,648	6.000	2.5	0.42
8/17	3	3,655	5.125	2.5	0.41
8/17	3	3,656	5.125	2.5	0.42
8/18	1	3,663	5.125	2.5	0.42

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Appendix D.1. (p 16 of 63)

Range 1													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
8/18	1	3,664	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/18	1	3,671	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/18	1	3,672	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/18	3	3,679	6.000	2.7	0.45	.	.	.	.	.	.	.	.
8/18	3	3,680	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/18	3	3,687	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/18	3	3,688	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/19	1	3,695	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/19	1	3,696	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/19	1	3,703	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/19	1	3,704	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/19	3	3,711	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/19	3	3,712	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/19	3	3,719	5.125	2.5	0.42
8/19	3	3,720	5.125	2.5	0.42
Range 1 Total -				2,296	382.73	495	68	218	163	0	40	1	5

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Appendix D.1. (p 17 of 63)

Range 2												
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
6/10	1	3	5.125	2.6	0.43	.	.	.	.	.	.	.
6/10	1	4	5.125	2.5	0.42	.	.	.	.	.	.	.
6/10	1	11	6.000	2.5	0.42	.	.	.	.	.	.	.
6/10	1	12	6.000	2.6	0.44	.	.	.	.	.	.	.
6/10	1	19	8.125	2.5	0.41	.	.	.	.	.	.	.
6/10	1	20	8.125	2.5	0.42	.	.	.	.	.	.	.
6/10	3	27	8.125	2.6	0.44	.	.	.	.	.	.	.
6/10	3	28	8.125	2.5	0.41	.	.	.	.	.	.	.
6/10	3	35	5.125	2.5	0.42	.	.	.	.	.	.	.
6/10	3	36	5.125	2.7	0.45	.	.	.	.	.	.	.
6/10	3	43	6.000	2.6	0.43	.	.	.	.	.	.	.
6/10	3	44	6.000	2.5	0.42	.	.	.	.	.	.	.
6/11	1	51	6.000	2.5	0.41	.	.	.	.	.	.	.
6/11	1	52	6.000	2.5	0.42	.	.	.	.	.	.	.
6/11	1	59	8.125	2.6	0.44	.	.	.	.	.	.	.
6/11	1	60	8.125	2.5	0.42	.	.	.	.	.	.	.
6/11	1	67	5.125	2.5	0.42	.	.	.	.	.	.	.
6/11	1	68	5.125	2.6	0.43	.	.	.	.	.	.	.
6/11	3	75	6.000	2.5	0.41	.	.	.	.	.	.	.
6/11	3	76	6.000	2.5	0.42	.	.	.	.	.	.	.
6/11	3	83	8.125	2.5	0.42	.	.	.	.	.	.	.
6/11	3	84	8.125	2.5	0.42	.	.	.	.	.	.	.
6/11	3	91	5.125	2.5	0.41	.	.	.	.	.	.	.
6/11	3	92	5.125	2.5	0.41	.	.	.	.	.	.	.
6/12	1	99	5.125	2.4	0.41	.	.	.	.	.	.	.
6/12	1	100	5.125	2.6	0.43	.	.	.	.	.	.	.
6/12	1	107	6.000	2.5	0.42	.	.	.	.	.	.	.
6/12	1	108	6.000	2.7	0.46	.	.	.	.	.	.	.
6/12	1	115	8.125	2.5	0.42	.	.	.	.	.	.	.
6/12	1	116	8.125	2.6	0.44	.	.	.	.	.	.	.
6/12	3	123	8.125	2.5	0.42	.	.	.	.	.	.	.
6/12	3	124	8.125	2.5	0.41	.	.	.	.	.	.	.
6/12	3	131	6.000	2.5	0.42	.	.	.	.	.	.	.
6/12	3	132	6.000	2.5	0.42	.	.	.	.	.	.	.
6/12	3	139	5.125	2.5	0.42	.	.	.	.	.	.	.
6/12	3	140	5.125	2.5	0.42	.	.	.	.	.	.	.
6/13	1	147	5.125	2.5	0.42	.	.	.	.	.	.	.
6/13	1	148	5.125	2.6	0.44	.	.	.	.	.	.	.
6/13	1	155	6.000	2.5	0.42	.	.	.	.	.	.	.
6/13	1	156	6.000	2.5	0.42	.	.	.	.	.	.	.
6/13	1	163	8.125	2.5	0.42	.	.	.	.	.	.	.
6/13	1	164	8.125	2.5	0.42	.	.	.	.	.	.	.
6/13	3	171	8.125	2.5	0.42	.	.	.	.	.	.	.
6/13	3	172	8.125	2.4	0.40	.	.	.	.	.	.	.
6/13	3	179	5.125	2.4	0.41	.	.	.	.	.	.	.
6/13	3	180	5.125	2.5	0.42	.	.	.	.	.	.	.
6/13	3	187	6.000	2.5	0.42	.	.	.	.	.	.	.
6/13	3	188	6.000	2.5	0.42	1	.	.	1	.	.	.
6/14	1	195	6.000	2.5	0.42	.	.	.	.	.	.	.
6/14	1	196	6.000	2.5	0.42	.	.	.	.	.	.	.
6/14	1	203	8.125	2.5	0.42	.	.	.	.	.	.	.
6/14	1	204	8.125	2.5	0.42	.	.	.	.	.	.	.
6/14	1	211	5.125	2.5	0.42	.	.	.	.	.	.	.
6/14	1	212	5.125	2.5	0.42	.	.	.	.	.	.	.
6/14	3	219	5.125	2.5	0.42	.	.	.	.	.	.	.
6/14	3	220	5.125	2.6	0.43	.	.	.	.	.	.	.
6/14	3	227	6.000	2.5	0.42	.	.	.	.	.	.	.
6/14	3	228	6.000	2.5	0.42
6/14	3	235	8.125	2.5	0.42
6/14	3	236	8.125	2.5	0.41
6/15	1	243	8.125	2.5	0.42

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Appendix D.1. (p 18 of 63)

Range 2

Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/15	1	244	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	1	251	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/15	1	252	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/15	1	259	6.000	2.6	0.44	2	2	.	.	.	.	.	.
6/15	1	260	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/15	3	267	6.000	2.5	0.42	3	3	.	.	.	.	.	.
6/15	3	268	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/15	3	275	8.125	2.4	0.41	1	1	.	.	.	.	.	.
6/15	3	276	8.125	2.4	0.41	1	1	.	.	.	.	.	.
6/15	3	283	5.125	2.4	0.41	3	3	.	.	.	.	.	.
6/15	3	284	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	1	291	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/16	1	292	5.125	2.5	0.41	2	2	.	.	.	.	.	.
6/16	1	299	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/16	1	300	6.000	2.6	0.43	2	1	1	.	.	.	.	.
6/16	1	307	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/16	1	308	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/16	3	315	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	316	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/16	3	323	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	324	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	331	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/16	3	332	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	339	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/17	1	340	6.000	2.5	0.42	2	2	.	.	.	.	.	.
6/17	1	347	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	348	8.125	2.4	0.40	.	.	.	.	.	.	.	.
6/17	1	355	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/17	1	356	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/17	3	363	5.125	2.5	0.41	1	1	.	.	.	.	.	.
6/17	3	364	5.125	2.6	0.44	.	.	.	.	.	.	.	.
6/17	3	371	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	3	372	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/17	3	379	8.125	2.6	0.43	1	1	.	.	.	.	.	.
6/17	3	380	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/18	1	387	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	388	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	395	6.000	2.5	0.41	1	1	.	.	.	.	.	.
6/18	1	396	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/18	1	403	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/18	1	404	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	411	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	412	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	419	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/18	3	420	6.000	2.6	0.43	1	1	.	.	.	.	.	.
6/18	3	427	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	428	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	435	8.125	2.5	0.42	2	2	.	.	.	.	.	.
6/19	1	436	8.125	2.5	0.42	2	2	.	.	.	.	.	.
6/19	1	443	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/19	1	444	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/19	1	451	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/19	1	452	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	459	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	460	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	467	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/19	2	468	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	475	5.125	2.5	0.42
6/19	2	476	5.125	2.5	0.42	1	1
6/19	3	483	5.125	2.4	0.41	2	2
6/19	3	484	5.125	2.5	0.42

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Appendix D.1. (p 19 of 63)

Range 2													
Date	Session ^a	Drift	Mesh	Fishing	Fathom	Species							
		Number		Time (min)		Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/19	3	491	8.125	2.8	0.46	.	.	.	.	.	.	.	.
6/19	3	492	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/19	3	499	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/19	3	500	6.000	2.4	0.40	.	.	.	.	.	.	.	.
6/20	1	507	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	508	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/20	1	515	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/20	1	516	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	523	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	524	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	531	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	532	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	539	6.000	1.7	0.29	.	.	.	.	.	.	.	.
6/20	2	540	6.000	2.5	0.42	5	5	.	.	.	.	.	.
6/20	2	547	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/20	2	548	8.125	1.8	0.31	.	.	.	.	.	.	.	.
6/20	3	555	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	3	556	8.125	2.6	0.44	1	1	.	.	.	.	.	.
6/20	3	563	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/20	3	564	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	3	571	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/20	3	572	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/21	1	579	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	580	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	587	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	588	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	595	8.125	2.7	0.44	.	.	.	.	.	.	.	.
6/21	1	596	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	603	8.125	2.4	0.40	.	.	.	.	.	.	.	.
6/21	2	604	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	611	6.000	2.4	0.41	.	.	.	.	.	.	.	.
6/21	2	612	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/21	2	619	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	620	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	627	5.125	2.5	0.42	2	2	.	.	.	.	.	.
6/21	3	628	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/21	3	635	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	636	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	643	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	644	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/22	1	651	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	1	652	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	1	659	5.125	2.4	0.40	.	.	.	.	.	.	.	.
6/22	1	660	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	1	667	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/22	1	668	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/22	2	675	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	676	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	683	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	684	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	691	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	692	5.125	2.5	0.42	2	2	.	.	.	.	.	.
6/22	3	699	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/22	3	700	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/22	3	707	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	3	708	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	3	715	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/22	3	716	6.000	2.5	0.42	1	1
6/23	1	723	6.000	2.5	0.42
6/23	1	724	6.000	2.6	0.43	2	1	.	1
6/23	1	731	5.125	2.5	0.42

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Appendix D.1. (p 20 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/23	1	732	5.125	2.6	0.44	.	.	.	.	.	.	.	.
6/23	1	739	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/23	1	740	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	747	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	748	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	755	6.000	2.5	0.41	4	4	.	.	.	.	.	.
6/23	2	756	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	763	5.125	2.5	0.42	3	3	.	.	.	.	.	.
6/23	2	764	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/23	3	771	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	3	772	5.125	2.5	0.41	1	1	.	.	.	.	.	.
6/23	3	779	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	3	780	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	3	787	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/23	3	788	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/24	1	795	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/24	1	796	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/24	1	803	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	804	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/24	1	811	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	812	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/24	2	819	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	820	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/24	2	827	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	828	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/24	2	835	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	836	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	843	5.125	2.5	0.42	3	2	.	1	.	.	.	.
6/24	3	844	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/24	3	851	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	852	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/24	3	859	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	860	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	867	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	868	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	875	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	876	5.125	2.5	0.42	2	2	.	.	.	.	.	.
6/25	1	883	8.125	2.5	0.42	2	.	1	1	.	.	.	.
6/25	1	884	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/25	2	891	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/25	2	892	8.125	2.5	0.42	2	2	.	.	.	.	.	.
6/25	2	899	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	2	900	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	2	907	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/25	2	908	6.000	2.5	0.42	3	3	.	.	.	.	.	.
6/25	3	915	6.000	2.5	0.42	3	1	.	2	.	.	.	.
6/25	3	916	6.000	2.5	0.42	6	1	.	5	.	.	.	.
6/25	3	923	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	3	924	8.125	2.5	0.41	1	1	.	.	.	.	.	.
6/25	3	931	5.125	2.5	0.42	6	1	.	5	.	.	.	.
6/25	3	932	5.125	2.5	0.42	4	.	.	4	.	.	.	.
6/26	1	939	5.125	2.5	0.42	6	3	1	2	.	.	.	.
6/26	1	940	5.125	2.5	0.42	7	.	1	6	.	.	.	.
6/26	1	947	6.000	2.5	0.42	3	3	.	.	.	.	.	.
6/26	1	948	6.000	2.5	0.42	3	1	.	2	.	.	.	.
6/26	1	955	8.125	2.5	0.42	3	3	.	.	.	.	.	.
6/26	1	956	8.125	2.4	0.40	.	.	.	.	.	.	.	.
6/26	2	961	8.125	2.5	0.42	4	4
6/26	2	962	8.125	2.5	0.41
6/26	2	967	5.125	2.5	0.42	4	.	.	4
6/26	2	968	5.125	2.5	0.42	5	1	.	4

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Appendix D.1. (p 21 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/26	2	973	6.000	2.5	0.41	6	1	.	5	.	.	.	.
6/26	2	974	6.000	2.5	0.41	2	2	.	.	.	.	.	.
6/26	3	979	6.000	2.5	0.42	5	3	.	2	.	.	.	.
6/26	3	980	6.000	2.5	0.42	4	1	.	3	.	.	.	.
6/26	3	983	8.125	2.5	0.42	2	1	.	1	.	.	.	.
6/26	3	984	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/26	3	987	5.125	2.5	0.42	2	2	.	.	.	.	.	.
6/26	3	988	5.125	2.5	0.42	2	.	1	1	.	.	.	.
6/27	1	995	5.125	2.5	0.41	5	3	.	2	.	.	.	.
6/27	1	996	5.125	2.6	0.43	3	1	1	1	.	.	.	.
6/27	1	997	6.000	2.5	0.42	4	2	.	2	.	.	.	.
6/27	1	998	6.000	2.5	0.42	2	2	.	.	.	.	.	.
6/27	1	1,003	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/27	1	1,004	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/27	2	1,009	8.125	2.5	0.42	2	2	.	.	.	.	.	.
6/27	2	1,010	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/27	2	1,015	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/27	2	1,015	5.125	2.5	0.42	1	.	.	1	.	.	.	.
6/27	2	1,016	5.125	2.5	0.42	3	3	.	.	.	.	.	.
6/27	2	1,021	6.000	2.5	0.42	3	3	.	.	.	.	.	.
6/27	2	1,022	6.000	2.5	0.42	3	2	.	1	.	.	.	.
6/27	3	1,027	6.000	2.5	0.42	2	1	.	1	.	.	.	.
6/27	3	1,028	6.000	2.5	0.42	6	1	3	2	.	.	.	.
6/27	3	1,031	5.125	2.5	0.42	10	.	7	3	.	.	.	.
6/27	3	1,032	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/27	3	1,035	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/27	3	1,036	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/28	1	1,041	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/28	1	1,042	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/28	1	1,049	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/28	1	1,050	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,057	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/28	1	1,058	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	2	1,065	5.125	2.5	0.42	3	3	.	.	.	.	.	.
6/28	2	1,066	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/28	2	1,073	6.000	2.5	0.41	1	1	.	.	.	.	.	.
6/28	2	1,074	6.000	2.5	0.41	1	1	.	.	.	.	.	.
6/28	2	1,081	8.125	2.5	0.41	2	1	.	1	.	.	.	.
6/28	2	1,082	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/28	3	1,089	8.125	2.7	0.44	.	.	.	.	.	.	.	.
6/28	3	1,090	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	3	1,097	6.000	2.5	0.42	2	2	.	.	.	.	.	.
6/28	3	1,098	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/28	3	1,105	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/28	3	1,106	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,113	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/29	1	1,114	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,121	6.000	2.5	0.41	2	2	.	.	.	.	.	.
6/29	1	1,122	6.000	2.5	0.42	2	2	.	.	.	.	.	.
6/29	1	1,129	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,130	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/29	2	1,137	8.125	2.5	0.42	2	2	.	.	.	.	.	.
6/29	2	1,138	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,145	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/29	2	1,146	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,153	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/29	2	1,154	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/29	3	1,161	6.000	2.5	0.41
6/29	3	1,162	6.000	2.5	0.41	4	.	.	4
6/29	3	1,169	5.125	2.5	0.42
6/29	3	1,170	5.125	2.5	0.41

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Appendix D.1. (p 22 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/29	3	1,177	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	3	1,178	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/30	1	1,185	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/30	1	1,186	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	1	1,193	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	1	1,194	5.125	2.5	0.42	2	1	.	1	.	.	.	.
6/30	1	1,201	6.000	2.6	0.44	3	1	.	2	.	.	.	.
6/30	1	1,202	6.000	2.5	0.42	2	2	.	.	.	.	.	.
6/30	2	1,209	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/30	2	1,210	6.000	2.5	0.41	1	.	.	1	.	.	.	.
6/30	2	1,217	8.125	2.5	0.42	2	2	.	.	.	.	.	.
6/30	2	1,218	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/30	2	1,225	5.125	2.5	0.42	2	2	.	.	.	.	.	.
6/30	2	1,226	5.125	2.5	0.42	1	.	1	.	.	.	.	.
6/30	3	1,233	5.125	2.5	0.42	5	2	2	1	.	.	.	.
6/30	3	1,234	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	3	1,241	6.000	2.5	0.41	3	.	2	1	.	.	.	.
6/30	3	1,242	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/30	3	1,249	8.125	2.5	0.42	1	.	.	1	.	.	.	.
6/30	3	1,250	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	1	1,257	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	1	1,258	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/01	1	1,265	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/01	1	1,266	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/01	1	1,273	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	1	1,274	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	2	1,281	5.125	2.5	0.42	3	2	1	.	.	.	.	.
7/01	2	1,282	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	2	1,289	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/01	2	1,290	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/01	2	1,297	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	2	1,298	8.125	2.8	0.47	1	1	.	.	.	.	.	.
7/01	3	1,305	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,306	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,313	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,314	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,321	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,322	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	1	1,329	5.125	2.5	0.41	5	1	2	2	.	.	.	.
7/02	1	1,330	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	1	1,337	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	1	1,338	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/02	1	1,345	6.000	2.7	0.44	.	.	.	.	.	.	.	.
7/02	1	1,346	6.000	2.5	0.41	1	.	.	1	.	.	.	.
7/02	2	1,353	6.000	2.5	0.42	3	.	2	1	.	.	.	.
7/02	2	1,354	6.000	2.6	0.43	1	1	.	.	.	.	.	.
7/02	2	1,361	5.125	2.5	0.42	4	2	.	2	.	.	.	.
7/02	2	1,362	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	2	1,369	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	2	1,370	8.125	2.5	0.42	2	2	.	.	.	.	.	.
7/02	3	1,376	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	3	1,377	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/02	3	1,378	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/02	3	1,385	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/02	3	1,386	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/02	3	1,393	8.125	2.5	0.42	1	.	.	1	.	.	.	.
7/02	3	1,394	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	1	1,401	5.125	2.5	0.42
7/03	1	1,402	5.125	2.5	0.42	1	.	.	1
7/03	1	1,409	6.000	2.5	0.42
7/03	1	1,410	6.000	2.5	0.41

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Appendix D.1. (p 23 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/03	1	1,417	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	1	1,418	8.125	2.5	0.42	1	.	.	1	.	.	.	.
7/03	2	1,425	8.125	2.5	0.42	3	2	.	1	.	.	.	.
7/03	2	1,426	8.125	2.5	0.41	1	1	.	.	.	.	.	.
7/03	2	1,433	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/03	2	1,434	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/03	2	1,441	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	2	1,442	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/03	3	1,449	5.125	2.6	0.43	1	.	.	1	.	.	.	.
7/03	3	1,450	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	3	1,457	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	3	1,458	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	3	1,465	6.000	2.5	0.41	3	.	.	3	.	.	.	.
7/03	3	1,466	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/04	1	1,473	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,474	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/04	1	1,481	5.125	2.7	0.44	1	.	.	1	.	.	.	.
7/04	1	1,482	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,489	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,490	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,497	8.125	2.5	0.41	1	1	.	.	.	.	.	.
7/04	2	1,498	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/04	2	1,505	6.000	2.5	0.41	4	2	.	2	.	.	.	.
7/04	2	1,506	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,513	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/04	2	1,514	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	3	1,521	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	3	1,522	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/04	3	1,529	6.000	2.5	0.42	4	.	.	4	.	.	.	.
7/04	3	1,530	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	3	1,537	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	3	1,538	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,545	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,546	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,553	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/05	1	1,554	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,561	5.125	2.5	0.42	2	.	.	2	.	.	.	.
7/05	1	1,562	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,569	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/05	2	1,570	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,577	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,578	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,585	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,586	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,593	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,594	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,601	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,602	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,609	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/05	3	1,610	6.000	2.5	0.42	2	.	.	2	.	.	.	.
7/06	1	1,617	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/06	1	1,618	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/06	1	1,625	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	1	1,626	8.125	2.6	0.44	.	.	.	.	.	.	.	.
7/06	1	1,633	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/06	1	1,634	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	2	1,641	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/06	2	1,642	5.125	2.5	0.42	1	.	1
7/06	2	1,649	6.000	2.5	0.42	1	.	1
7/06	2	1,650	6.000	2.6	0.43
7/06	2	1,657	8.125	2.5	0.42

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Appendix D.1. (p 24 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/06	2	1,658	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	3	1,665	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	3	1,666	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	3	1,673	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	3	1,674	5.125	2.5	0.42	2	.	1	1	.	.	.	.
7/06	3	1,681	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/06	3	1,682	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/07	1	1,689	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/07	1	1,690	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/07	1	1,697	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/07	1	1,698	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/07	1	1,705	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/07	1	1,706	8.125	2.5	0.42	1	.	1	.	.	.	.	.
7/07	2	1,713	8.125	2.5	0.42	4	4	.	.	.	.	.	.
7/07	2	1,714	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/07	2	1,721	5.125	2.5	0.42	4	1	2	1	.	.	.	.
7/07	2	1,722	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/07	2	1,727	6.000	2.5	0.42	2	2	.	.	.	.	.	.
7/07	2	1,728	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/07	3	1,733	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/07	3	1,734	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/07	3	1,739	5.125	2.7	0.44	.	.	.	.	.	.	.	.
7/07	3	1,740	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/07	3	1,745	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/07	3	1,746	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	1	1,751	8.125	2.5	0.42	2	2	.	.	.	.	.	.
7/08	1	1,752	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/08	1	1,757	6.000	2.6	0.43	2	2	.	.	.	.	.	.
7/08	1	1,758	6.000	2.5	0.41	1	1	.	.	.	.	.	.
7/08	1	1,763	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/08	1	1,764	5.125	2.6	0.43	3	2	1	.	.	.	.	.
7/08	2	1,769	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/08	2	1,770	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	2	1,775	6.000	2.5	0.41	3	3	.	.	.	.	.	.
7/08	2	1,776	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/08	2	1,781	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	2	1,782	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/08	3	1,787	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/08	3	1,788	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	3	1,793	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/08	3	1,794	5.125	2.6	0.43	2	1	1	.	.	.	.	.
7/08	3	1,799	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/08	3	1,800	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/09	1	1,805	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	1	1,806	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	1	1,813	6.000	2.5	0.42	5	1	2	2	.	.	.	.
7/09	1	1,814	6.000	2.5	0.41	1	1	.	.	.	.	.	.
7/09	1	1,821	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	1	1,822	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/09	2	1,829	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/09	2	1,830	8.125	2.5	0.42	2	.	2	.	.	.	.	.
7/09	2	1,835	6.000	2.5	0.41	2	1	.	1	.	.	.	.
7/09	2	1,836	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/09	2	1,841	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/09	2	1,842	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	3	1,847	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	3	1,848	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	3	1,853	8.125	2.5	0.42
7/09	3	1,854	8.125	2.5	0.41	1	1
7/09	3	1,859	6.000	2.5	0.41
7/09	3	1,860	6.000	2.5	0.42	1	.	.	1

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Appendix D.1. (p 25 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/10	1	1,865	6.000	2.5	0.41	1	.	.	1	.	.	.	.
7/10	1	1,866	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/10	1	1,873	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/10	1	1,874	5.125	2.5	0.42	2	2	.	.	.	.	.	.
7/10	1	1,881	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	1	1,882	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/10	2	1,889	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/10	2	1,890	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	2	1,897	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	2	1,898	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	2	1,905	6.000	2.5	0.41	1	.	.	1	.	.	.	.
7/10	2	1,906	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/10	3	1,913	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/10	3	1,914	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/10	3	1,921	5.125	2.5	0.42	2	.	.	2	.	.	.	.
7/10	3	1,922	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	3	1,929	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	3	1,930	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	1	1,937	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	1	1,938	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/11	1	1,945	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/11	1	1,946	5.125	2.5	0.41	1	1	.	.	.	.	.	.
7/11	1	1,953	6.000	2.5	0.42	3	.	1	2	.	.	.	.
7/11	1	1,954	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,961	6.000	2.6	0.44	.	.	.	.	.	.	.	.
7/11	2	1,962	6.000	1.5	0.25	.	.	.	.	.	.	.	.
7/11	2	1,969	5.125	2.5	0.42	6	2	.	4	.	.	.	.
7/11	2	1,970	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,977	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,978	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	3	1,985	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	3	1,986	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/11	3	1,993	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	3	1,994	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	3	2,001	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/11	3	2,002	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,009	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,010	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/12	1	2,017	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/12	1	2,018	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,025	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,026	5.125	2.5	0.42	3	.	.	3	.	.	.	.
7/12	2	2,033	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,034	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,041	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,042	6.000	2.5	0.41	1	1	.	.	.	.	.	.
7/12	2	2,049	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,050	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,057	8.125	1.5	0.25	.	.	.	.	.	.	.	.
7/12	3	2,058	8.125	2.5	0.42	2	2	.	.	.	.	.	.
7/12	3	2,065	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,066	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,073	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,074	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	1	2,081	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/13	1	2,082	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	1	2,089	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/13	1	2,090	5.125	2.5	0.42
7/13	1	2,097	8.125	2.5	0.42
7/13	1	2,098	8.125	2.5	0.42
7/13	2	2,105	8.125	2.5	0.42	1	1

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Appendix D.1. (p 26 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/13	2	2,106	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/13	2	2,113	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,114	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,121	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,122	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/13	3	2,129	6.000	2.7	0.44	.	.	.	.	.	.	.	.
7/13	3	2,130	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,137	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,138	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,145	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,146	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,153	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,154	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,161	5.125	2.5	0.42	2	2	.	.	.	.	.	.
7/14	1	2,162	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/14	1	2,169	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/14	1	2,170	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/14	2	2,177	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/14	2	2,178	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/14	2	2,185	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/14	2	2,186	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/14	2	2,193	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	2	2,194	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,201	5.125	1.7	0.28	.	.	.	.	.	.	.	.
7/14	3	2,202	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,209	6.000	2.5	0.42	2	.	.	2	.	.	.	.
7/14	3	2,210	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,217	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,218	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,225	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,226	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,233	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,234	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,241	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,242	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,249	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/15	3	2,250	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/15	3	2,257	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,258	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,265	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/15	3	2,266	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,273	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,274	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,281	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,282	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,289	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,290	8.125	2.7	0.46	.	.	.	.	.	.	.	.
7/16	2	2,297	8.125	2.6	0.44	.	.	.	.	.	.	.	.
7/16	2	2,298	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/16	2	2,305	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,306	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,313	5.125	2.8	0.47	.	.	.	.	.	.	.	.
7/16	2	2,314	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/17	1	2,321	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,322	5.125	2.5	0.42	2	2	.	.	.	.	.	.
7/17	1	2,329	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,330	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,337	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/17	1	2,338	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/17	2	2,345	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/17	2	2,346	6.000	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 27 of 63)

Range 2

Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/17	2	2,353	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	2	2,354	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/17	2	2,361	8.125	2.6	0.43	1	1	.	.	.	.	.	.
7/17	2	2,362	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,369	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,370	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/18	1	2,377	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,378	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,385	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,386	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,393	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,394	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,401	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,402	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,409	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/18	3	2,410	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,417	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,418	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,425	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/19	1	2,426	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,433	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/19	1	2,434	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,441	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,442	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,449	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,450	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/19	3	2,457	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,458	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/20	1	2,465	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/20	1	2,466	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/20	1	2,473	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/20	1	2,474	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/20	1	2,481	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/20	1	2,482	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/20	3	2,489	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/20	3	2,490	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/20	3	2,497	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/20	3	2,498	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/20	3	2,505	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/20	3	2,506	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	1	2,513	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	1	2,514	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/21	1	2,521	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/21	1	2,522	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/21	1	2,529	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	1	2,530	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,537	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,538	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,545	6.000	2.6	0.44	.	.	.	.	.	.	.	.
7/21	3	2,546	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,553	5.125	2.6	0.44	.	.	.	.	.	.	.	.
7/21	3	2,554	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	1	2,561	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	1	2,562	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	1	2,569	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/22	1	2,570	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	1	2,577	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/22	1	2,578	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/22	3	2,585	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/22	3	2,586	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/22	3	2,593	5.125	2.5	0.41	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 28 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/22	3	2,594	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	3	2,601	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/22	3	2,602	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/23	1	2,609	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/23	1	2,610	8.125	2.5	0.41	1	1	.	.	.	.	.	.
7/23	1	2,617	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/23	1	2,618	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/23	1	2,625	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/23	1	2,626	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/23	3	2,633	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/23	3	2,634	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/23	3	2,641	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/23	3	2,642	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/23	3	2,649	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/23	3	2,650	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	1	2,657	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	1	2,658	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	1	2,665	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/24	1	2,666	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/24	1	2,673	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/24	1	2,674	8.125	2.8	0.46	.	.	.	.	.	.	.	.
7/24	3	2,681	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	3	2,682	8.125	2.9	0.48	.	.	.	.	.	.	.	.
7/24	3	2,689	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/24	3	2,690	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	3	2,697	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/24	3	2,698	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,705	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,706	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,713	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/25	1	2,714	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,721	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,722	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/25	3	2,729	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	3	2,730	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	3	2,737	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/25	3	2,738	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	3	2,745	5.125	2.5	0.42	1	.	.	.	.	1	.	.
7/25	3	2,746	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/26	1	2,754	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/26	1	2,755	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/26	1	2,756	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/26	1	2,766	6.000	2.5	0.42	1	.	.	.	.	1	.	.
7/26	1	2,767	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/26	1	2,768	6.000	2.7	0.46	.	.	.	.	.	.	.	.
7/26	3	2,778	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,779	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,780	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/26	3	2,790	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,791	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,792	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/27	1	2,802	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/27	1	2,803	5.125	2.4	0.41	.	.	.	.	.	.	.	.
7/27	1	2,804	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/27	1	2,814	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	1	2,815	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	1	2,816	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	3	2,826	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	3	2,827	6.000	2.4	0.41	.	.	.	.	.	.	.	.
7/27	3	2,828	6.000	2.5	0.42	1	.	.	.	.	1	.	.
7/27	3	2,838	5.125	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 29 of 63)

Range 2													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/27	3	2,839	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/27	3	2,840	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,850	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/28	1	2,851	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,852	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,862	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,863	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/28	1	2,864	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,874	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/28	3	2,875	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,876	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/28	3	2,886	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,887	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,888	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/29	1	2,898	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/29	1	2,899	5.125	2.6	0.43	1	1	.	.	.	.	.	.
7/29	1	2,900	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,910	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/29	1	2,911	6.000	2.7	0.45	.	.	.	.	.	.	.	.
7/29	1	2,912	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/29	3	2,922	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,923	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/29	3	2,924	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/29	3	2,934	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,935	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,936	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,946	5.125	2.6	0.44	.	.	.	.	.	.	.	.
7/30	1	2,947	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,948	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,958	6.000	2.5	0.42	3	.	.	.	.	3	.	.
7/30	1	2,959	6.000	2.5	0.42	1	.	.	.	.	1	.	.
7/30	1	2,960	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,970	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,971	6.000	2.5	0.41	1	.	.	.	.	1	.	.
7/30	3	2,972	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/30	3	2,982	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,983	5.125	2.6	0.44	.	.	.	.	.	.	.	.
7/30	3	2,984	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	2,994	5.125	2.5	0.42	1	.	.	.	.	1	.	.
7/31	1	2,995	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	2,996	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	3,006	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/31	1	3,007	6.000	2.5	0.42	1	.	.	.	.	1	.	.
7/31	1	3,008	6.000	2.5	0.42	1	.	.	.	.	1	.	.
7/31	3	3,018	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/31	3	3,019	6.000	2.5	0.42	1	.	.	.	.	1	.	.
7/31	3	3,020	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,030	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,031	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,032	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/01	1	3,042	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,043	5.125	2.5	0.42	1	.	1	.	.	.	.	.
8/01	1	3,044	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/01	1	3,054	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,055	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/01	1	3,056	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,066	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/01	3	3,067	6.000	2.5	0.42
8/01	3	3,068	6.000	2.5	0.42
8/01	3	3,078	5.125	2.6	0.43
8/01	3	3,079	5.125	2.6	0.43

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Appendix D.1. (p 30 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
8/01	3	3,080	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,090	5.125	2.6	0.44	.	.	.	.	.	.	.	.
8/02	1	3,091	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,092	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/02	1	3,102	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,103	6.000	2.5	0.42	2	.	.	.	.	2	.	.
8/02	1	3,104	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/02	3	3,114	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,115	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,116	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/02	3	3,126	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/02	3	3,127	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/02	3	3,128	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,138	5.125	2.5	0.42	2	.	.	.	.	2	.	.
8/03	1	3,139	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,140	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,150	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/03	1	3,151	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,152	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,162	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,163	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,164	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/03	3	3,174	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/03	3	3,175	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,176	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,186	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,187	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,188	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/04	1	3,198	6.000	2.6	0.44	.	.	.	.	.	.	.	.
8/04	1	3,199	6.000	2.6	0.44	.	.	.	.	.	.	.	.
8/04	1	3,200	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,210	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,211	6.000	2.7	0.44	.	.	.	.	.	.	.	.
8/04	3	3,212	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,222	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,223	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,224	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,234	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,235	5.125	2.4	0.41	.	.	.	.	.	.	.	.
8/05	1	3,236	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,246	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,247	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,248	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,258	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/05	3	3,259	6.000	2.5	0.42	3	.	.	.	.	3	.	.
8/05	3	3,260	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,270	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/05	3	3,271	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,272	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	1	3,281	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	1	3,282	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	1	3,289	6.000	2.6	0.43	1	.	.	.	.	1	.	.
8/06	1	3,290	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/06	3	3,297	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/06	3	3,298	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/06	3	3,305	5.125	2.5	0.42	3	.	.	.	.	3	.	.
8/06	3	3,306	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/07	1	3,313	5.125	2.5	0.42
8/07	1	3,314	5.125	2.5	0.41
8/07	1	3,321	6.000	2.5	0.41
8/07	1	3,322	6.000	2.7	0.45

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Appendix D.1. (p 31 of 63)

Range 2												
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
8/07	3	3,329	6.000	2.5	0.42	.	.	.	.	.	.	.
8/07	3	3,330	6.000	2.5	0.42	.	.	.	.	.	.	.
8/07	3	3,337	5.125	2.5	0.41	.	.	.	.	.	.	.
8/07	3	3,338	5.125	2.5	0.42	.	.	.	.	.	.	.
8/08	1	3,345	5.125	2.6	0.44	.	.	.	.	.	.	.
8/08	1	3,346	5.125	2.5	0.42	.	.	.	.	.	.	.
8/08	1	3,353	6.000	2.5	0.42	.	.	.	.	.	.	.
8/08	1	3,354	6.000	2.5	0.42	.	.	.	.	.	.	.
8/08	3	3,361	6.000	2.5	0.42	.	.	.	.	.	.	.
8/08	3	3,362	6.000	2.5	0.42	.	.	.	.	.	.	.
8/08	3	3,369	5.125	2.5	0.42	1	.	.	.	.	1	.
8/08	3	3,370	5.125	2.5	0.42	.	.	.	.	.	.	.
8/10	1	3,409	5.125	2.5	0.42	.	.	.	.	.	.	.
8/10	1	3,410	5.125	2.5	0.42	.	.	.	.	.	.	.
8/10	1	3,417	6.000	2.6	0.43	.	.	.	.	.	.	.
8/10	1	3,418	6.000	2.5	0.42	.	.	.	.	.	.	.
8/10	3	3,425	6.000	2.5	0.41	.	.	.	.	.	.	.
8/10	3	3,426	6.000	2.5	0.41	.	.	.	.	.	.	.
8/10	3	3,433	5.125	2.5	0.42	.	.	.	.	.	.	.
8/10	3	3,434	5.125	2.6	0.43	1	.	.	.	.	1	.
8/11	1	3,441	5.125	2.5	0.42	.	.	.	.	.	.	.
8/11	1	3,442	5.125	2.5	0.42	.	.	.	.	.	.	.
8/11	1	3,449	6.000	2.5	0.42	.	.	.	.	.	.	.
8/11	1	3,450	6.000	2.5	0.42	.	.	.	.	.	.	.
8/11	3	3,457	6.000	2.5	0.41	.	.	.	.	.	.	.
8/11	3	3,458	6.000	2.5	0.42	.	.	.	.	.	.	.
8/11	3	3,465	5.125	2.4	0.41	.	.	.	.	.	.	.
8/11	3	3,466	5.125	2.5	0.42	.	.	.	.	.	.	.
8/12	1	3,473	5.125	2.5	0.42	.	.	.	.	.	.	.
8/12	1	3,474	5.125	2.5	0.42	.	.	.	.	.	.	.
8/12	1	3,481	6.000	2.6	0.43	.	.	.	.	.	.	.
8/12	1	3,482	6.000	2.5	0.41	.	.	.	.	.	.	.
8/12	3	3,489	6.000	2.5	0.42	.	.	.	.	.	.	.
8/12	3	3,490	6.000	2.6	0.43	1	.	.	.	.	1	.
8/12	3	3,497	5.125	2.5	0.42	.	.	.	.	.	.	.
8/12	3	3,498	5.125	2.6	0.43	.	.	.	.	.	.	.
8/13	1	3,505	5.125	2.6	0.43	.	.	.	.	.	.	.
8/13	1	3,506	5.125	2.5	0.42	1	.	.	.	.	1	.
8/13	1	3,513	6.000	2.6	0.43	.	.	.	.	.	.	.
8/13	1	3,514	6.000	2.5	0.42	.	.	.	.	.	.	.
8/13	3	3,521	6.000	2.5	0.42	.	.	.	.	.	.	.
8/13	3	3,522	6.000	2.5	0.41	.	.	.	.	.	.	.
8/13	3	3,529	5.125	2.5	0.42	.	.	.	.	.	.	.
8/13	3	3,530	5.125	2.5	0.42	1	.	.	.	.	1	.
8/14	1	3,537	5.125	2.5	0.42	.	.	.	.	.	.	.
8/14	1	3,538	5.125	2.5	0.42	.	.	.	.	.	.	.
8/14	1	3,545	6.000	2.5	0.42	1	.	.	.	.	1	.
8/14	1	3,546	6.000	2.4	0.40	.	.	.	.	.	.	.
8/14	3	3,553	6.000	2.5	0.42	.	.	.	.	.	.	.
8/14	3	3,554	6.000	2.7	0.44	.	.	.	.	.	.	.
8/14	3	3,561	5.125	2.5	0.41	.	.	.	.	.	.	.
8/14	3	3,562	5.125	2.5	0.42	.	.	.	.	.	.	.
8/15	1	3,569	5.125	2.5	0.41	.	.	.	.	.	.	.
8/15	1	3,570	5.125	2.5	0.42	.	.	.	.	.	.	.
8/15	1	3,577	6.000	2.5	0.42	.	.	.	.	.	.	.
8/15	1	3,578	6.000	2.5	0.42	.	.	.	.	.	.	.
8/15	3	3,585	6.000	2.5	0.42	.	.	.	.	.	.	.
8/15	3	3,586	6.000	2.5	0.42
8/15	3	3,593	5.125	2.5	0.42
8/15	3	3,594	5.125	2.5	0.42
8/16	1	3,601	5.125	2.5	0.41

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Appendix D.1. (p 32 of 63)

Range 2													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
8/16	1	3,602	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/16	1	3,609	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/16	1	3,610	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/16	3	3,617	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/16	3	3,618	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/16	3	3,625	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/16	3	3,626	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/17	1	3,633	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/17	1	3,634	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/17	1	3,641	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/17	1	3,642	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/17	3	3,649	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/17	3	3,650	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/17	3	3,657	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/17	3	3,658	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/18	1	3,665	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/18	1	3,666	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/18	1	3,673	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/18	1	3,674	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/18	3	3,681	6.000	2.6	0.44	.	.	.	.	.	.	.	.
8/18	3	3,682	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/18	3	3,689	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/18	3	3,690	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/19	1	3,697	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/19	1	3,698	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/19	1	3,705	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/19	1	3,706	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/19	3	3,713	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/19	3	3,714	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/19	3	3,721	5.125	2.5	0.42	1	1	.	.
8/19	3	3,722	5.125	2.5	0.42
Range 2 Total -				2,376	396.03	460	255	42	127	0	36	0	0

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Appendix D.1. (p 33 of 63)

Range 3													
Date	Session*	Drift	Mesh	Fishing	Fathom	Species							
		Number		Time (min)		Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/10	1	5	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	1	6	5.125	2.4	0.40	.	.	.	.	.	.	.	.
6/10	1	13	6.000	2.6	0.44	.	.	.	.	.	.	.	.
6/10	1	14	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/10	1	21	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	1	22	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	29	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	30	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	37	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/10	3	38	5.125	2.7	0.44	.	.	.	.	.	.	.	.
6/10	3	45	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	46	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/11	1	53	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/11	1	54	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/11	1	61	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/11	1	62	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	1	69	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/11	1	70	5.125	2.6	0.44	.	.	.	.	.	.	.	.
6/11	3	77	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	78	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	85	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	86	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	93	5.125	2.4	0.41	.	.	.	.	.	.	.	.
6/11	3	94	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/12	1	101	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/12	1	102	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/12	1	109	6.000	2.4	0.41	.	.	.	.	.	.	.	.
6/12	1	110	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/12	1	117	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/12	1	118	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/12	3	125	8.125	2.4	0.41	.	.	.	.	.	.	.	.
6/12	3	126	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/12	3	133	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/12	3	134	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/12	3	141	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/12	3	142	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	149	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	150	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	157	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/13	1	158	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	165	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	166	8.125	2.7	0.46	.	.	.	.	.	.	.	.
6/13	3	173	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	3	174	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	3	181	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	3	182	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/13	3	189	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/13	3	190	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	197	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/14	1	198	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	205	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	206	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/14	1	213	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	214	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/14	3	221	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/14	3	222	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/14	3	229	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/14	3	230	6.000	2.6	0.44	.	.	.	.	.	.	.	.
6/14	3	237	8.125	2.7	0.44	.	.	.	.	.	.	.	.
6/14	3	238	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	1	245	8.125	2.6	0.43	1	1	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 34 of 63)

Range 3

Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/15	1	246	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	1	253	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/15	1	254	5.125	2.6	0.44	3	.	2	1	.	.	.	.
6/15	1	261	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/15	1	262	6.000	2.5	0.41	1	.	1	.	.	.	.	.
6/15	3	269	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/15	3	270	6.000	2.5	0.41	1	.	.	1	.	.	.	.
6/15	3	277	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	3	278	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	3	285	5.125	2.7	0.44	.	.	.	.	.	.	.	.
6/15	3	286	5.125	2.5	0.42	6	1	1	4	.	.	.	.
6/16	1	293	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	1	294	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/16	1	301	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/16	1	302	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/16	1	309	8.125	2.6	0.44	.	.	.	.	.	.	.	.
6/16	1	310	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	317	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	318	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	325	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	326	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	333	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	334	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	341	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	342	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/17	1	349	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/17	1	350	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/17	1	357	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/17	1	358	5.125	2.6	0.44	1	1	.	.	.	.	.	.
6/17	3	365	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/17	3	366	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/17	3	373	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	3	374	6.000	2.5	0.42	2	1	.	1	.	.	.	.
6/17	3	381	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/17	3	382	8.125	2.6	0.44	.	.	.	.	.	.	.	.
6/18	1	389	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	390	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	397	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	398	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	405	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	406	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/18	3	413	5.125	2.5	0.42	2	2	.	.	.	.	.	.
6/18	3	414	5.125	2.5	0.41	3	.	.	3	.	.	.	.
6/18	3	421	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/18	3	422	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	429	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/18	3	430	8.125	2.4	0.40	.	.	.	.	.	.	.	.
6/19	1	437	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	438	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	445	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/19	1	446	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	453	6.000	2.5	0.42	1	.	1	.	.	.	.	.
6/19	1	454	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/19	2	461	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	462	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/19	2	469	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/19	2	470	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	477	5.125	2.5	0.42
6/19	2	478	5.125	2.5	0.42
6/19	3	485	5.125	2.6	0.43
6/19	3	486	5.125	2.7	0.44

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Appendix D.1. (p 35 of 63)

Range 3													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/19	3	493	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/19	3	494	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	3	501	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/19	3	502	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/20	1	509	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	510	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	517	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	518	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	525	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	526	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/20	2	533	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	534	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	541	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	542	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	549	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	550	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/20	3	557	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	3	558	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	3	565	5.125	2.7	0.44	.	.	.	.	.	.	.	.
6/20	3	566	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/20	3	573	6.000	2.5	0.42	1	.	.	1	.	.	.	.
6/20	3	574	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	581	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	582	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/21	1	589	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	590	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	597	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/21	1	598	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	605	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	606	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	613	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	614	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	621	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/21	2	622	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	629	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	630	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	637	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	638	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	645	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/21	3	646	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	1	653	8.125	2.4	0.40	.	.	.	.	.	.	.	.
6/22	1	654	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	1	661	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/22	1	662	5.125	2.4	0.41	.	.	.	.	.	.	.	.
6/22	1	669	6.000	2.5	0.41	1	.	1	.	.	.	.	.
6/22	1	670	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/22	2	677	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	678	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/22	2	685	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	686	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	693	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	694	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	3	701	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	3	702	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	3	709	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/22	3	710	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	3	717	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/22	3	718	6.000	2.5	0.41
6/23	1	725	6.000	2.5	0.42
6/23	1	726	6.000	2.5	0.42
6/23	1	733	5.125	2.5	0.42

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Appendix D.1. (p 36 of 63)

Range 3												
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
6/23	1	734	5.125	2.7	0.44	.	.	.	.	.	.	.
6/23	1	741	8.125	2.5	0.42	.	.	.	.	.	.	.
6/23	1	742	8.125	2.5	0.41	1	1	.	.	.	.	.
6/23	2	749	8.125	2.5	0.42	.	.	.	.	.	.	.
6/23	2	750	8.125	2.5	0.42	.	.	.	.	.	.	.
6/23	2	757	6.000	2.5	0.42	.	.	.	.	.	.	.
6/23	2	758	6.000	2.5	0.42	2	.	1	1	.	.	.
6/23	2	765	5.125	2.5	0.42	3	.	3	.	.	.	.
6/23	2	766	5.125	2.6	0.43	.	.	.	.	.	.	.
6/23	3	773	5.125	2.5	0.42	2	.	.	2	.	.	.
6/23	3	774	5.125	2.5	0.42	.	.	.	.	.	.	.
6/23	3	781	5.125	2.5	0.41	.	.	.	.	.	.	.
6/23	3	782	5.125	2.5	0.41	.	.	.	.	.	.	.
6/23	3	789	6.000	2.5	0.42	4	.	4	.	.	.	.
6/23	3	790	6.000	2.5	0.42	.	.	.	.	.	.	.
6/24	1	797	6.000	2.5	0.41	.	.	.	.	.	.	.
6/24	1	798	6.000	2.5	0.42	.	.	.	.	.	.	.
6/24	1	805	5.125	2.5	0.42	.	.	.	.	.	.	.
6/24	1	806	5.125	2.5	0.42	.	.	.	.	.	.	.
6/24	1	813	8.125	2.5	0.42	.	.	.	.	.	.	.
6/24	1	814	8.125	2.5	0.41	1	.	1	.	.	.	.
6/24	2	821	8.125	2.5	0.42	.	.	.	.	.	.	.
6/24	2	822	8.125	2.5	0.42	.	.	.	.	.	.	.
6/24	2	829	6.000	2.5	0.42	.	.	.	.	.	.	.
6/24	2	830	6.000	2.5	0.42	.	.	.	.	.	.	.
6/24	2	837	5.125	2.5	0.42	7	.	.	7	.	.	.
6/24	2	838	5.125	2.5	0.42	.	.	.	.	.	.	.
6/24	3	845	5.125	2.5	0.42	1	.	.	1	.	.	.
6/24	3	846	5.125	2.5	0.42	.	.	.	.	.	.	.
6/24	3	853	8.125	2.5	0.42	.	.	.	.	.	.	.
6/24	3	854	8.125	2.5	0.42	.	.	.	.	.	.	.
6/24	3	861	6.000	2.5	0.42	.	.	.	.	.	.	.
6/24	3	862	6.000	2.5	0.42	1	.	.	1	.	.	.
6/25	1	869	6.000	2.5	0.42	5	.	2	3	.	.	.
6/25	1	877	5.125	2.5	0.42	7	.	3	4	.	.	.
6/25	1	878	5.125	2.5	0.42	1	.	.	1	.	.	.
6/25	1	885	8.125	2.5	0.42	.	.	.	.	.	.	.
6/25	1	886	8.125	2.5	0.42	.	.	.	.	.	.	.
6/25	2	893	8.125	2.5	0.42	2	.	.	2	.	.	.
6/25	2	894	8.125	2.5	0.42	.	.	.	.	.	.	.
6/25	2	901	5.125	2.5	0.42	.	.	.	.	.	.	.
6/25	2	902	5.125	2.5	0.42	8	1	2	4	.	1	.
6/25	2	909	6.000	2.5	0.42	11	3	1	7	.	.	.
6/25	2	910	6.000	2.5	0.42	1	.	1	.	.	.	.
6/25	3	917	6.000	2.5	0.41	3	.	1	2	.	.	.
6/25	3	918	6.000	2.5	0.41	4	.	3	1	.	.	.
6/25	3	925	8.125	2.5	0.42	1	.	1	.	.	.	.
6/25	3	926	8.125	2.6	0.43	.	.	.	.	.	.	.
6/25	3	933	5.125	2.5	0.42	5	1	.	4	.	.	.
6/25	3	934	5.125	2.5	0.42	4	.	1	3	.	.	.
6/26	1	941	5.125	2.5	0.42	8	.	4	4	.	.	.
6/26	1	942	5.125	2.5	0.42	7	.	2	5	.	.	.
6/26	1	949	6.000	2.5	0.42	6	.	4	2	.	.	.
6/26	1	950	6.000	2.5	0.42	2	.	1	1	.	.	.
6/26	1	957	8.125	2.6	0.43	.	.	.	.	.	.	.
6/26	1	958	8.125	2.5	0.42	3	2	.	1	.	.	.
6/26	2	963	8.125	2.5	0.41	.	.	.	.	.	.	.
6/26	2	964	8.125	2.5	0.42
6/26	2	969	5.125	2.5	0.42	6	.	5	1	.	.	.
6/26	2	970	5.125	2.6	0.43
6/26	2	975	6.000	2.5	0.42	7	.	4	3	.	.	.

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Appendix D.1. (p 37 of 63)

Range 3

Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/26	2	976	6.000	2.5	0.42	5	.	4	1	.	.	.	.
6/27	1	991	5.125	2.5	0.41	6	.	6	.	.	.	.	.
6/27	1	992	5.125	2.5	0.41	5	.	5	.	.	.	.	.
6/27	1	999	6.000	2.5	0.41	3	.	1	2	.	.	.	.
6/27	1	1,000	6.000	2.5	0.42	3	.	3	.	.	.	.	.
6/27	1	1,005	8.125	2.5	0.42	1	.	.	1	.	.	.	.
6/27	1	1,006	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/27	1	1,007	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/27	2	1,011	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/27	2	1,012	8.125	2.5	0.41	1	.	1	.	.	.	.	.
6/27	2	1,017	5.125	2.5	0.41	8	.	5	3	.	.	.	.
6/27	2	1,018	5.125	2.5	0.42	6	.	6	.	.	.	.	.
6/27	2	1,023	6.000	2.5	0.42	4	.	2	2	.	.	.	.
6/27	2	1,024	6.000	2.5	0.42	1	.	1	.	.	.	1	.
6/28	1	1,043	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,044	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,051	6.000	2.5	0.42	1	.	1	.	.	.	.	.
6/28	1	1,052	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,059	5.125	2.6	0.43	2	.	2	.	.	.	.	.
6/28	1	1,060	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	2	1,067	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/28	2	1,068	5.125	2.5	0.42	4	.	2	2	.	.	.	.
6/28	2	1,075	6.000	2.5	0.41	2	.	1	1	.	.	.	.
6/28	2	1,076	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/28	2	1,083	8.125	2.5	0.42	1	.	1	.	.	.	.	.
6/28	2	1,084	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/28	3	1,091	8.125	2.5	0.42	2	.	2	.	.	.	.	.
6/28	3	1,092	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	3	1,099	6.000	2.6	0.44	3	.	2	1	.	.	.	.
6/28	3	1,100	6.000	2.4	0.41	.	.	.	.	.	.	.	.
6/28	3	1,107	5.125	2.5	0.41	1	.	1	.	.	.	.	.
6/28	3	1,108	5.125	2.6	0.43	2	.	1	1	.	.	.	.
6/29	1	1,115	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,116	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,123	6.000	2.5	0.42	5	1	1	3	.	.	.	.
6/29	1	1,124	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,131	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,132	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,139	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,140	8.125	2.5	0.42	1	.	1	.	.	.	.	.
6/29	2	1,147	5.125	2.5	0.42	5	.	4	1	.	.	.	.
6/29	2	1,148	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/29	2	1,155	6.000	2.5	0.42	2	1	.	1	.	.	.	.
6/29	2	1,156	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/29	3	1,163	6.000	2.5	0.41	1	.	1	.	.	.	.	.
6/29	3	1,164	6.000	2.4	0.41	3	.	1	2	.	.	.	.
6/29	3	1,171	5.125	2.5	0.42	8	.	5	3	.	.	.	.
6/29	3	1,172	5.125	2.5	0.42	2	.	2	.	.	.	.	.
6/29	3	1,179	8.125	2.5	0.42	2	.	2	.	.	.	.	.
6/29	3	1,180	8.125	2.5	0.42	1	.	1	.	.	.	.	.
6/30	1	1,187	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/30	1	1,188	8.125	2.5	0.41	1	.	1	.	.	.	.	.
6/30	1	1,195	5.125	2.7	0.46	3	.	2	1	.	.	.	.
6/30	1	1,196	5.125	2.4	0.41	.	.	.	.	.	.	.	.
6/30	1	1,203	6.000	2.6	0.43	2	.	.	2	.	.	.	.
6/30	1	1,204	6.000	2.6	0.43	3	.	1	2	.	.	.	.
6/30	2	1,211	6.000	2.5	0.42	1	.	1	.	.	.	.	.
6/30	2	1,212	6.000	2.5	0.42	4	.	4	.	.	.	.	.
6/30	2	1,219	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	2	1,220	8.125	2.5	0.42	2	.	2	.	.	.	.	.
6/30	2	1,227	5.125	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 38 of 63)

Range 3												
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
6/30	2	1,228	5.125	2.5	0.42	1	.	1	.	.	.	.
6/30	3	1,235	5.125	2.5	0.42	2	.	2	.	.	.	.
6/30	3	1,236	5.125	2.5	0.42	3	.	3	.	.	.	.
6/30	3	1,243	6.000	2.5	0.42	3	.	2	1	.	.	.
6/30	3	1,244	6.000	2.5	0.42	3	.	2	1	.	.	.
6/30	3	1,251	8.125	2.5	0.42	1	.	1	.	.	.	.
6/30	3	1,252	8.125	2.5	0.42	.	.	.	.	.	.	.
7/01	1	1,259	8.125	2.5	0.42	.	.	.	.	.	.	.
7/01	1	1,260	8.125	2.5	0.41	.	.	.	.	.	.	.
7/01	1	1,267	6.000	2.6	0.43	3	.	2	1	.	.	.
7/01	1	1,268	6.000	2.5	0.42	.	.	.	.	.	.	.
7/01	1	1,275	5.125	2.5	0.41	5	.	4	1	.	.	.
7/01	1	1,276	5.125	2.5	0.42	.	.	.	.	.	.	.
7/01	2	1,283	5.125	2.5	0.42	10	.	8	2	.	.	.
7/01	2	1,284	5.125	2.5	0.42	4	.	3	1	.	.	.
7/01	2	1,291	6.000	2.5	0.42	5	.	3	2	.	.	.
7/01	2	1,292	6.000	2.5	0.42	.	.	.	.	.	.	.
7/01	2	1,299	8.125	2.5	0.42	3	1	.	2	.	.	.
7/01	2	1,300	8.125	2.5	0.42	.	.	.	.	.	.	.
7/01	3	1,307	8.125	2.5	0.41	1	.	1	.	.	.	.
7/01	3	1,308	8.125	2.5	0.42	3	.	3	.	.	.	.
7/01	3	1,315	6.000	2.5	0.42	2	.	2	.	.	.	.
7/01	3	1,316	6.000	2.5	0.42	1	.	1	.	.	.	.
7/01	3	1,323	5.125	2.5	0.42	2	.	2	.	.	.	.
7/01	3	1,324	5.125	2.5	0.42	7	.	4	3	.	.	.
7/02	1	1,331	5.125	2.5	0.42	2	.	2	.	.	.	.
7/02	1	1,332	5.125	2.5	0.42	1	.	.	1	.	.	.
7/02	1	1,339	8.125	2.6	0.44	.	.	.	.	.	.	.
7/02	1	1,340	8.125	2.5	0.42	.	.	.	.	.	.	.
7/02	1	1,347	6.000	2.5	0.41	1	1	.	.	.	.	.
7/02	1	1,348	6.000	2.7	0.45	.	.	.	.	.	.	.
7/02	2	1,355	6.000	2.5	0.42	2	.	1	1	.	.	.
7/02	2	1,356	6.000	2.5	0.42	.	.	.	.	.	.	.
7/02	2	1,363	5.125	2.5	0.42	1	.	1	.	.	.	.
7/02	2	1,364	5.125	2.5	0.42	.	.	.	.	.	.	.
7/02	2	1,371	8.125	2.5	0.41	.	.	.	.	.	.	.
7/02	2	1,372	8.125	2.5	0.41	.	.	.	.	.	.	.
7/02	3	1,379	8.125	2.5	0.41	.	.	.	.	.	.	.
7/02	3	1,380	8.125	2.5	0.41	.	.	.	.	.	.	.
7/02	3	1,387	6.000	2.5	0.41	6	.	3	3	.	.	.
7/02	3	1,388	6.000	2.5	0.41	1	.	.	1	.	.	.
7/02	3	1,395	8.125	2.5	0.42	2	.	2	.	.	.	.
7/02	3	1,396	8.125	2.5	0.42	.	.	.	.	.	.	.
7/03	1	1,403	5.125	2.5	0.42	6	.	5	1	.	.	.
7/03	1	1,404	5.125	2.5	0.42	4	.	4	.	.	.	.
7/03	1	1,411	6.000	2.5	0.42	6	.	2	4	.	.	.
7/03	1	1,412	6.000	2.5	0.42	1	.	1	.	.	.	.
7/03	1	1,419	8.125	2.5	0.42	2	.	1	1	.	.	.
7/03	1	1,420	8.125	2.5	0.42	.	.	.	.	.	.	.
7/03	2	1,427	8.125	2.5	0.41	1	.	1	.	.	.	.
7/03	2	1,428	8.125	2.5	0.41	.	.	.	.	.	.	.
7/03	2	1,435	6.000	2.5	0.42	4	.	1	3	.	.	.
7/03	2	1,436	6.000	2.5	0.42	2	.	1	1	.	.	.
7/03	2	1,443	5.125	2.5	0.42	7	.	4	3	.	.	.
7/03	2	1,444	5.125	2.5	0.42	.	.	.	.	.	.	.
7/03	3	1,451	5.125	2.5	0.42	2	.	2	.	.	.	.
7/03	3	1,452	5.125	2.5	0.42	2	.	1	1	.	.	.
7/03	3	1,459	8.125	2.5	0.42
7/03	3	1,460	8.125	2.5	0.42
7/03	3	1,467	6.000	2.5	0.42	1	.	1
7/03	3	1,468	6.000	2.5	0.41	2	.	2

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Appendix D.1. (p 39 of 63)

Range 3													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/04	1	1,475	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/04	1	1,476	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,483	5.125	2.6	0.43	3	.	2	1	.	.	.	.
7/04	1	1,484	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,491	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,492	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,499	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,500	8.125	2.5	0.42	1	.	1	.	.	.	.	.
7/04	2	1,507	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/04	2	1,508	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/04	2	1,515	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,516	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/04	3	1,523	5.125	2.5	0.42	3	.	1	2	.	.	.	.
7/04	3	1,524	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/04	3	1,531	6.000	2.5	0.42	4	.	.	4	.	.	.	.
7/04	3	1,532	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	3	1,539	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	3	1,540	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,547	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,548	8.125	2.5	0.42	2	.	2	.	.	.	.	.
7/05	1	1,555	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,556	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/05	1	1,563	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,564	5.125	2.5	0.42	2	.	1	1	.	.	.	.
7/05	2	1,571	5.125	2.5	0.42	2	.	2	.	.	.	.	.
7/05	2	1,572	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,579	6.000	2.5	0.42	3	.	2	1	.	.	.	.
7/05	2	1,580	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,587	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,588	8.125	2.5	0.42	2	.	2	.	.	.	.	.
7/05	3	1,595	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,596	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,603	5.125	2.5	0.42	2	.	2	.	.	.	.	.
7/05	3	1,604	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,611	6.000	2.5	0.42	3	.	1	2	.	.	.	.
7/05	3	1,612	6.000	2.5	0.42	7	.	7	.	.	.	.	.
7/06	1	1,619	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/06	1	1,620	6.000	2.5	0.42	2	.	2	.	.	.	.	.
7/06	1	1,627	8.125	2.5	0.42	2	.	2	.	.	.	.	.
7/06	1	1,628	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/06	1	1,635	5.125	2.5	0.42	3	.	3	.	.	.	.	.
7/06	1	1,636	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/06	2	1,643	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	2	1,644	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/06	2	1,651	6.000	2.5	0.41	3	.	2	1	.	.	.	.
7/06	2	1,652	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/06	2	1,659	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	2	1,660	8.125	2.5	0.42	1	.	1	.	.	.	.	.
7/06	3	1,667	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	3	1,668	8.125	2.6	0.43	3	.	3	.	.	.	.	.
7/06	3	1,675	5.125	2.5	0.42	2	.	2	.	.	.	.	.
7/06	3	1,676	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	3	1,683	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/06	3	1,684	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/07	1	1,691	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/07	1	1,692	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/07	1	1,699	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/07	1	1,700	5.125	2.5	0.42	3	.	3
7/07	1	1,707	8.125	2.5	0.42
7/07	1	1,708	8.125	2.5	0.42	1	.	1
7/07	2	1,715	8.125	2.5	0.42

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Appendix D.1. (p 40 of 63)

Range 3												
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
7/07	2	1,716	8.125	2.5	0.42	1	1	.	.	.	.	.
7/09	1	1,807	5.125	2.5	0.42	2	.	2	.	.	.	.
7/09	1	1,808	5.125	2.5	0.41	2	.	2	.	.	.	.
7/09	1	1,815	6.000	2.5	0.42	9	.	8	1	.	.	.
7/09	1	1,816	6.000	1.6	0.26	2	.	2	.	.	.	.
7/09	1	1,823	8.125	2.5	0.42	3	.	3	.	.	.	.
7/09	1	1,824	8.125	2.5	0.42	1	.	1	.	.	.	.
7/10	1	1,867	6.000	2.5	0.42	2	1	1	.	.	.	.
7/10	1	1,868	6.000	2.5	0.42	.	.	.	.	.	.	.
7/10	1	1,875	5.125	2.5	0.42	.	.	.	.	.	.	.
7/10	1	1,876	5.125	2.5	0.41	3	.	3	.	.	.	.
7/10	1	1,883	8.125	2.5	0.42	.	.	.	.	.	.	.
7/10	1	1,884	8.125	2.5	0.42	.	.	.	.	.	.	.
7/10	2	1,891	8.125	2.5	0.42	1	1	.	.	.	.	.
7/10	2	1,892	8.125	2.5	0.42	.	.	.	.	.	.	.
7/10	2	1,899	5.125	2.5	0.42	5	.	4	.	.	1	.
7/10	2	1,900	5.125	2.5	0.42	.	.	.	.	.	.	.
7/10	2	1,907	6.000	2.5	0.42	4	.	2	2	.	.	.
7/10	2	1,908	6.000	2.5	0.42	.	.	.	.	.	.	.
7/10	3	1,915	6.000	2.5	0.42	1	.	1	.	.	.	.
7/10	3	1,916	6.000	2.5	0.42	1	.	1	.	.	.	.
7/10	3	1,923	5.125	2.5	0.42	6	.	5	1	.	.	.
7/10	3	1,924	5.125	2.5	0.42	2	.	2	.	.	.	.
7/10	3	1,931	8.125	2.5	0.42	1	.	1	.	.	.	.
7/10	3	1,932	8.125	2.5	0.42	.	.	.	.	.	.	.
7/11	1	1,939	8.125	2.5	0.42	.	.	.	.	.	.	.
7/11	1	1,940	8.125	2.5	0.42	.	.	.	.	.	.	.
7/11	1	1,947	5.125	2.5	0.42	.	.	.	.	.	.	.
7/11	1	1,948	5.125	2.5	0.42	2	.	1	1	.	.	.
7/11	1	1,955	6.000	2.5	0.42	1	.	.	1	.	.	.
7/11	1	1,956	6.000	2.6	0.43	6	.	2	4	.	.	.
7/11	2	1,963	6.000	2.5	0.41	2	.	1	1	.	.	.
7/11	2	1,964	6.000	2.5	0.42	2	.	1	1	.	.	.
7/11	2	1,971	5.125	2.5	0.41	2	.	1	1	.	.	.
7/11	2	1,972	5.125	2.5	0.42	1	.	1	.	.	.	.
7/11	2	1,979	8.125	2.5	0.42	1	.	1	.	.	.	.
7/11	2	1,980	8.125	2.5	0.41	3	.	3	.	.	.	.
7/11	3	1,987	8.125	2.5	0.41	.	.	.	.	.	.	.
7/11	3	1,988	8.125	2.5	0.42	1	.	1	.	.	.	.
7/11	3	1,995	5.125	2.5	0.42	1	.	1	.	.	.	.
7/11	3	1,996	5.125	2.5	0.42	.	.	.	.	.	.	.
7/11	3	2,003	6.000	2.5	0.42	1	.	1	.	.	.	.
7/11	3	2,004	6.000	2.5	0.42	.	.	.	.	.	.	.
7/12	1	2,011	6.000	2.5	0.42	.	.	.	.	.	.	.
7/12	1	2,012	6.000	2.5	0.42	.	.	.	.	.	.	.
7/12	1	2,019	8.125	2.5	0.42	.	.	.	.	.	.	.
7/12	1	2,020	8.125	2.5	0.42	.	.	.	.	.	.	.
7/12	1	2,027	5.125	2.5	0.42	.	.	.	.	.	.	.
7/12	1	2,028	5.125	2.5	0.42	.	.	.	.	.	.	.
7/12	2	2,035	5.125	2.5	0.42	.	.	.	.	.	.	.
7/12	2	2,036	5.125	2.5	0.42	1	.	.	1	.	.	.
7/12	2	2,043	6.000	2.5	0.42	1	.	1	.	.	.	.
7/12	2	2,044	6.000	2.5	0.42	.	.	.	.	.	.	.
7/12	2	2,051	8.125	2.5	0.42	.	.	.	.	.	.	.
7/12	2	2,052	8.125	2.5	0.41	.	.	.	.	.	.	.
7/12	3	2,059	8.125	2.5	0.42	.	.	.	.	.	.	.
7/12	3	2,060	8.125	2.5	0.42	.	.	.	.	.	.	.
7/12	3	2,067	5.125	2.5	0.42	1	.	.	1	.	.	.
7/12	3	2,068	5.125	2.5	0.42	.	.	.	.	.	.	.
7/12	3	2,075	6.000	2.5	0.42	.	.	.	.	.	.	.
7/12	3	2,076	6.000	2.5	0.42	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 41 of 63)

Range 3												
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
7/13	1	2,083	6.000	2.5	0.42	.	.	.	.	.	.	.
7/13	1	2,084	6.000	2.5	0.42	1	.	1	.	.	.	.
7/13	1	2,091	5.125	2.5	0.42	1	.	1	.	.	.	.
7/13	1	2,092	5.125	2.5	0.42	.	.	.	.	.	.	.
7/13	1	2,099	8.125	2.5	0.42	.	.	.	.	.	.	.
7/13	1	2,100	8.125	2.5	0.42	.	.	.	.	.	.	.
7/13	2	2,107	8.125	2.5	0.42	.	.	.	.	.	.	.
7/13	2	2,108	8.125	2.5	0.42	1	.	.	.	.	.	1
7/13	2	2,115	5.125	2.5	0.42	1	.	1	.	.	.	.
7/13	2	2,116	5.125	2.5	0.41	3	.	3	.	.	.	.
7/13	2	2,123	6.000	2.5	0.42	1	.	.	1	.	.	.
7/13	2	2,124	6.000	2.5	0.42	.	.	.	.	.	.	.
7/13	3	2,131	6.000	2.5	0.42	.	.	.	.	.	.	.
7/13	3	2,132	6.000	2.5	0.42	1	.	1	.	.	.	.
7/13	3	2,139	5.125	2.5	0.42	2	.	2	.	.	.	.
7/13	3	2,140	5.125	2.5	0.42	.	.	.	.	.	.	.
7/13	3	2,147	8.125	2.5	0.42	.	.	.	.	.	.	.
7/13	3	2,148	8.125	2.5	0.42	.	.	.	.	.	.	.
7/14	1	2,155	8.125	2.5	0.42	.	.	.	.	.	.	.
7/14	1	2,156	8.125	2.6	0.43	.	.	.	.	.	.	.
7/14	1	2,163	5.125	2.5	0.42	.	.	.	.	.	.	.
7/14	1	2,164	5.125	2.5	0.42	1	.	1	.	.	.	.
7/14	1	2,171	6.000	2.6	0.44	.	.	.	.	.	.	.
7/14	1	2,172	6.000	2.6	0.44	.	.	.	.	.	.	.
7/14	2	2,179	6.000	2.5	0.42	.	.	.	.	.	.	.
7/14	2	2,180	6.000	2.5	0.42	.	.	.	.	.	.	.
7/14	2	2,187	5.125	2.5	0.42	1	.	1	.	.	.	.
7/14	2	2,188	5.125	2.5	0.42	1	.	1	.	.	.	.
7/14	2	2,195	8.125	2.5	0.42	.	.	.	.	.	.	.
7/14	2	2,196	8.125	2.5	0.42	.	.	.	.	.	.	.
7/14	3	2,203	5.125	2.5	0.41	2	.	2	.	.	.	.
7/14	3	2,204	5.125	2.5	0.42	.	.	.	.	.	.	.
7/14	3	2,211	6.000	2.5	0.42	.	.	.	.	.	.	.
7/14	3	2,212	6.000	2.5	0.42	.	.	.	.	.	.	.
7/14	3	2,219	8.125	2.5	0.42	.	.	.	.	.	.	.
7/14	3	2,220	8.125	2.5	0.41	2	.	2	.	.	.	.
7/15	1	2,227	8.125	2.5	0.42	.	.	.	.	.	.	.
7/15	1	2,228	8.125	2.5	0.42	.	.	.	.	.	.	.
7/15	1	2,235	6.000	2.5	0.42	1	.	1	.	.	.	.
7/15	1	2,236	6.000	2.5	0.42	.	.	.	.	.	.	.
7/15	1	2,243	5.125	2.5	0.42	2	.	2	.	.	.	.
7/15	1	2,244	5.125	2.5	0.41	.	.	.	.	.	.	.
7/15	3	2,251	5.125	2.5	0.42	.	.	.	.	.	.	.
7/15	3	2,252	5.125	2.5	0.42	3	.	3	.	.	.	.
7/15	3	2,259	8.125	2.5	0.42	.	.	.	.	.	.	.
7/15	3	2,260	8.125	2.5	0.42	.	.	.	.	.	.	.
7/15	3	2,267	6.000	2.5	0.42	.	.	.	.	.	.	.
7/15	3	2,268	6.000	2.6	0.43	1	.	1	.	.	.	.
7/16	1	2,275	6.000	2.5	0.42	3	.	3	.	.	.	.
7/16	1	2,276	6.000	2.5	0.42	.	.	.	.	.	.	.
7/16	1	2,283	5.125	2.5	0.41	.	.	.	.	.	.	.
7/16	1	2,284	5.125	2.5	0.42	.	.	.	.	.	.	.
7/16	1	2,291	8.125	2.6	0.44	.	.	.	.	.	.	.
7/16	1	2,292	8.125	2.5	0.42	.	.	.	.	.	.	.
7/16	2	2,299	8.125	3.0	0.50	.	.	.	.	.	.	.
7/16	2	2,300	8.125	2.5	0.42	.	.	.	.	.	.	.
7/16	2	2,307	6.000	2.5	0.41	.	.	.	.	.	.	.
7/16	2	2,308	6.000	2.6	0.43
7/16	2	2,315	5.125	2.6	0.44
7/16	2	2,316	5.125	2.5	0.42	1	1
7/17	1	2,323	5.125	2.6	0.44

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Appendix D.1. (p 42 of 63)

Range 3												
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
7/17	1	2,324	5.125	2.6	0.43	.	.	.	.	.	.	.
7/17	1	2,331	8.125	2.6	0.43	.	.	.	.	.	.	.
7/17	1	2,332	8.125	2.5	0.42	.	.	.	.	.	.	.
7/17	1	2,339	6.000	2.8	0.47	.	.	.	.	.	.	.
7/17	1	2,340	6.000	2.5	0.42	.	.	.	.	.	.	.
7/17	2	2,347	6.000	2.6	0.43	.	.	.	.	.	.	.
7/17	2	2,348	6.000	2.5	0.42	.	.	.	.	.	.	.
7/17	2	2,355	5.125	2.5	0.42	1	.	1	.	.	.	.
7/17	2	2,356	5.125	3.0	0.50	.	.	.	.	.	.	.
7/17	2	2,363	8.125	2.5	0.42	.	.	.	.	.	.	.
7/17	2	2,364	8.125	2.5	0.42	.	.	.	.	.	.	.
7/18	1	2,371	8.125	2.5	0.42	1	.	.	.	.	.	1
7/18	1	2,372	8.125	2.5	0.42	.	.	.	.	.	.	.
7/18	1	2,379	6.000	2.4	0.40	.	.	.	.	.	.	.
7/18	1	2,380	6.000	2.5	0.42	.	.	.	.	.	.	.
7/18	1	2,387	5.125	2.5	0.42	1	.	.	.	.	.	1
7/18	1	2,388	5.125	2.5	0.42	.	.	.	.	.	.	.
7/18	3	2,395	5.125	2.5	0.42	.	.	.	.	.	.	.
7/18	3	2,396	5.125	2.5	0.42	1	.	1	.	.	.	.
7/18	3	2,403	8.125	2.5	0.42	.	.	.	.	.	.	.
7/18	3	2,404	8.125	2.5	0.42	.	.	.	.	.	.	.
7/18	3	2,411	6.000	2.5	0.42	.	.	.	.	.	.	.
7/18	3	2,412	6.000	2.5	0.42	.	.	.	.	.	.	.
7/19	1	2,419	6.000	2.5	0.42	.	.	.	.	.	.	.
7/19	1	2,420	6.000	2.5	0.42	.	.	.	.	.	.	.
7/19	1	2,427	5.125	2.5	0.42	.	.	.	.	.	.	.
7/19	1	2,428	5.125	2.5	0.42	.	.	.	.	.	.	.
7/19	1	2,435	8.125	2.5	0.42	.	.	.	.	.	.	.
7/19	1	2,436	8.125	2.5	0.42	.	.	.	.	.	.	.
7/19	3	2,443	8.125	2.5	0.42	.	.	.	.	.	.	.
7/19	3	2,444	8.125	2.5	0.42	.	.	.	.	.	.	.
7/19	3	2,451	6.000	2.5	0.42	.	.	.	.	.	.	.
7/19	3	2,452	6.000	2.5	0.42	.	.	.	.	.	.	.
7/19	3	2,459	5.125	2.5	0.42	.	.	.	.	.	.	.
7/19	3	2,460	5.125	2.5	0.42	.	.	.	.	.	.	.
7/20	1	2,467	5.125	2.5	0.41	.	.	.	.	.	.	.
7/20	1	2,468	5.125	2.5	0.42	.	.	.	.	.	.	.
7/20	1	2,475	8.125	2.6	0.43	.	.	.	.	.	.	.
7/20	1	2,476	8.125	2.5	0.41	.	.	.	.	.	.	.
7/20	1	2,483	6.000	2.5	0.41	2	.	2	.	.	.	.
7/20	1	2,484	6.000	2.5	0.42	.	.	.	.	.	.	.
7/20	3	2,491	6.000	2.5	0.41	.	.	.	.	.	.	.
7/20	3	2,492	6.000	2.5	0.42	.	.	.	.	.	.	.
7/20	3	2,499	8.125	2.5	0.42	.	.	.	.	.	.	.
7/20	3	2,500	8.125	2.5	0.41	.	.	.	.	.	.	.
7/20	3	2,507	5.125	2.6	0.43	1	.	1	.	.	.	.
7/20	3	2,508	5.125	2.5	0.42	.	.	.	.	.	.	.
7/21	1	2,515	5.125	2.5	0.41	.	.	.	.	.	.	.
7/21	1	2,516	5.125	2.5	0.42	.	.	.	.	.	.	.
7/21	1	2,523	6.000	2.5	0.42	.	.	.	.	.	.	.
7/21	1	2,524	6.000	2.5	0.42	.	.	.	.	.	.	.
7/21	1	2,531	8.125	2.5	0.42	.	.	.	.	.	.	.
7/21	1	2,532	8.125	2.6	0.43	.	.	.	.	.	.	.
7/21	3	2,539	8.125	2.5	0.42	.	.	.	.	.	.	.
7/21	3	2,540	8.125	2.5	0.42	.	.	.	.	.	.	.
7/21	3	2,547	6.000	2.5	0.42	.	.	.	.	.	.	.
7/21	3	2,548	6.000	2.5	0.42	.	.	.	.	.	.	.
7/21	3	2,555	5.125	2.5	0.42
7/21	3	2,556	5.125	2.5	0.42
7/22	1	2,563	5.125	2.5	0.42	1	.	1
7/22	1	2,564	5.125	2.5	0.41

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Appendix D.1. (p 43 of 63)

Range 3													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/22	1	2,571	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	1	2,572	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	1	2,579	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/22	1	2,580	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/22	3	2,587	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/22	3	2,588	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/22	3	2,595	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	3	2,596	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	3	2,603	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	3	2,604	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/23	1	2,611	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/23	1	2,612	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/23	1	2,619	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/23	1	2,620	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/23	1	2,627	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/23	1	2,628	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/23	3	2,635	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/23	3	2,636	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/23	3	2,643	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/23	3	2,644	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/23	3	2,651	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/23	3	2,652	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	1	2,659	5.125	2.6	0.43	1	.	.	.	.	1	.	.
7/24	1	2,660	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	1	2,667	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/24	1	2,668	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/24	1	2,675	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	1	2,676	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	3	2,683	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	3	2,684	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	3	2,691	5.125	2.5	0.42	1	.	.	.	.	1	.	.
7/24	3	2,692	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/24	3	2,699	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/24	3	2,700	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,707	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,708	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,715	5.125	2.5	0.42	5	.	3	.	.	2	.	.
7/25	1	2,716	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/25	1	2,723	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	1	2,724	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/25	3	2,731	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/25	3	2,732	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/25	3	2,739	8.125	2.5	0.42	2	.	1	.	.	1	.	.
7/25	3	2,740	8.125	2.5	0.42	1	.	.	.	.	1	.	.
7/25	3	2,747	5.125	2.5	0.42	2	.	2	.	.	.	.	.
7/25	3	2,748	5.125	2.5	0.41	1	.	1	.	.	.	.	.
7/26	1	2,757	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/26	1	2,758	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/26	1	2,759	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/26	1	2,769	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/26	1	2,770	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	1	2,771	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,781	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,782	6.000	2.5	0.42	3	.	2	.	.	1	.	.
7/26	3	2,783	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/26	3	2,793	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/26	3	2,794	5.125	2.5	0.42	1	.	.	.	.	1	.	.
7/26	3	2,795	5.125	2.5	0.42	1	.	1
7/27	1	2,805	5.125	2.5	0.41
7/27	1	2,806	5.125	2.5	0.42
7/27	1	2,807	5.125	2.5	0.42	1	.	1

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Appendix D.1. (p 44 of 63)

Range 3													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/27	1	2,817	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	1	2,818	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	1	2,819	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	3	2,829	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	3	2,830	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	3	2,831	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/27	3	2,841	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/27	3	2,842	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/27	3	2,843	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,853	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/28	1	2,854	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,855	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,865	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,866	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/28	1	2,867	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,877	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/28	3	2,878	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,879	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,889	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/28	3	2,890	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,891	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,901	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,902	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,903	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/29	1	2,913	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,914	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,915	6.000	2.6	0.44	.	.	.	.	.	.	.	.
7/29	3	2,925	6.000	2.5	0.42	1	.	.	.	.	1	.	.
7/29	3	2,926	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,927	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,937	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,938	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/29	3	2,939	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,949	5.125	2.5	0.42	2	.	.	.	.	2	.	.
7/30	1	2,950	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,951	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,961	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/30	1	2,962	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/30	1	2,963	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/30	3	2,973	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/30	3	2,974	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/30	3	2,975	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,985	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,986	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,987	5.125	2.5	0.42	1	.	.	.	.	1	.	.
7/31	1	2,997	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	2,998	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/31	1	2,999	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/31	1	3,009	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	3,010	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	3,011	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/31	3	3,021	6.000	2.5	0.42	2	.	.	.	.	2	.	.
7/31	3	3,022	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,023	6.000	2.5	0.41	1	.	1	.	.	.	.	.
7/31	3	3,033	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,034	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/31	3	3,035	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,045	5.125	2.7	0.44	.	.	.	.	.	.	.	.
8/01	1	3,046	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/01	1	3,047	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/01	1	3,057	6.000	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 45 of 63)

Range 3													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
8/01	1	3,058	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,059	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/01	3	3,069	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,070	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,071	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,081	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,082	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,083	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,093	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/02	1	3,094	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,095	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/02	1	3,105	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/02	1	3,106	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,107	6.000	2.5	0.42	2	.	.	.	.	2	.	.
8/02	3	3,117	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/02	3	3,118	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,119	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,129	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/02	3	3,130	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,131	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,141	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/03	1	3,142	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/03	1	3,143	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,153	6.000	2.5	0.42	2	.	.	.	.	2	.	.
8/03	1	3,154	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/03	1	3,155	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,165	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,166	6.000	2.5	0.42	3	.	.	.	.	3	.	.
8/03	3	3,167	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,177	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/03	3	3,178	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,179	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/04	1	3,189	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/04	1	3,190	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,191	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/04	1	3,201	6.000	2.6	0.43	2	.	.	.	.	2	.	.
8/04	1	3,202	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,203	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,213	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,214	6.000	2.5	0.41	2	.	.	.	.	2	.	.
8/04	3	3,215	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/04	3	3,225	5.125	2.5	0.42	2	.	.	.	.	2	.	.
8/04	3	3,226	5.125	2.7	0.44	.	.	.	.	.	.	.	.
8/04	3	3,227	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/05	1	3,237	5.125	2.5	0.42	2	.	.	.	.	2	.	.
8/05	1	3,238	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,249	6.000	2.5	0.41	1	.	.	.	.	1	.	.
8/05	1	3,250	6.000	2.5	0.42	2	.	.	.	.	2	.	.
8/05	1	3,251	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/05	3	3,261	6.000	2.6	0.43	5	.	.	.	.	5	.	.
8/05	3	3,262	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,263	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,273	5.125	2.5	0.42	6	.	.	.	.	6	.	.
8/05	3	3,274	5.125	2.6	0.44	1	.	.	.	.	1	.	.
8/05	3	3,275	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	1	3,283	5.125	2.5	0.42	3	.	.	.	.	3	.	.
8/06	1	3,284	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	1	3,291	6.000	2.5	0.42	2	.	.	.	.	2	.	.
8/06	1	3,292	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/06	3	3,299	6.000	2.5	0.42	4	.	1	.	.	3	.	.
8/06	3	3,300	6.000	2.5	0.41	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 46 of 63)

Range 3													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
8/06	3	3,307	5.125	2.5	0.42	4	.	.	1	.	3	.	.
8/06	3	3,308	5.125	2.5	0.42	4	.	.	.	.	4	.	.
8/07	1	3,315	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/07	1	3,316	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/07	1	3,323	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/07	1	3,324	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/07	3	3,331	6.000	2.5	0.42	2	.	.	.	.	2	.	.
8/07	3	3,332	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/07	3	3,339	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/07	3	3,340	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/08	1	3,347	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/08	1	3,348	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/08	1	3,355	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/08	1	3,356	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/08	3	3,363	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/08	3	3,364	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/08	3	3,371	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/08	3	3,372	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/10	1	3,411	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/10	1	3,412	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/10	1	3,419	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/10	1	3,420	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/10	3	3,427	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/10	3	3,428	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/10	3	3,435	5.125	2.5	0.41	1	.	.	.	.	1	.	.
8/10	3	3,436	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/11	1	3,443	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/11	1	3,444	5.125	2.5	0.42	3	.	.	1	.	2	.	.
8/11	1	3,451	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/11	1	3,452	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/11	3	3,459	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/11	3	3,460	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/11	3	3,467	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/11	3	3,468	5.125	2.5	0.42	2	.	.	.	.	2	.	.
8/12	1	3,475	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/12	1	3,476	5.125	2.6	0.43	1	.	.	.	.	1	.	.
8/12	1	3,483	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/12	1	3,484	6.000	2.5	0.42	3	.	.	1	.	2	.	.
8/12	3	3,491	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/12	3	3,492	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/12	3	3,499	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/12	3	3,500	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/13	1	3,507	5.125	2.5	0.42	4	.	.	.	.	4	.	.
8/13	1	3,508	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/13	1	3,515	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/13	1	3,516	6.000	2.5	0.41	2	.	.	.	.	2	.	.
8/13	3	3,523	6.000	2.5	0.42	3	.	.	.	.	3	.	.
8/13	3	3,524	6.000	2.5	0.41	6	.	.	.	.	6	.	.
8/13	3	3,531	5.125	2.5	0.42	5	.	.	.	.	5	.	.
8/13	3	3,532	5.125	2.5	0.42	8	.	.	.	.	8	.	.
8/14	1	3,539	5.125	2.5	0.42	2	.	.	.	.	2	.	.
8/14	1	3,540	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/14	1	3,547	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/14	1	3,548	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/14	3	3,555	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/14	3	3,556	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/14	3	3,563	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/14	3	3,564	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/15	1	3,571	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/15	1	3,572	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/15	1	3,579	6.000	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 47 of 63)

Range 3													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
8/15	1	3,580	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/15	3	3,587	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/15	3	3,588	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/15	3	3,595	5.125	3.0	0.51	.	.	.	.	.	.	.	.
8/15	3	3,596	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/16	1	3,603	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/16	1	3,604	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/16	1	3,611	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/16	1	3,612	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/16	3	3,619	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/16	3	3,620	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/16	3	3,627	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/16	3	3,628	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/17	1	3,635	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/17	1	3,636	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/17	1	3,643	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/17	1	3,644	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/17	3	3,651	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/17	3	3,652	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/17	3	3,659	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/17	3	3,660	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/18	1	3,667	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/18	1	3,668	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/18	1	3,675	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/18	1	3,676	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/18	3	3,683	6.000	2.6	0.43	1	.	.	.	.	1	.	.
8/18	3	3,684	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/18	3	3,691	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/18	3	3,692	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/19	1	3,699	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/19	1	3,700	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/19	1	3,707	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/19	1	3,708	6.000	2.4	0.40	.	.	.	.	.	.	.	.
8/19	3	3,715	6.000	2.6	0.44	.	.	.	.	.	.	.	.
8/19	3	3,716	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/19	3	3,723	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/19	3	3,724	5.125	2.5	0.42	.	.	.	.	.	.	.	.
Range 3 Total -				2,240	373.40	659	27	351	166	0	110	1	4

-Continued-

Appendix D.1. (p 48 of 63)

Range 4													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/10	1	7	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/10	1	8	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	1	15	6.000	2.4	0.41	.	.	.	.	.	.	.	.
6/10	1	16	6.000	2.9	0.48	.	.	.	.	.	.	.	.
6/10	1	23	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/10	1	24	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	31	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	32	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/10	3	39	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	40	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/10	3	47	6.000	2.7	0.46	.	.	.	.	.	.	.	.
6/10	3	48	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/11	1	55	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/11	1	56	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/11	1	63	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	1	64	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/11	1	71	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	1	72	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	79	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/11	3	80	6.000	2.7	0.45	.	.	.	.	.	.	.	.
6/11	3	87	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	88	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/11	3	95	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/11	3	96	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/12	1	103	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/12	1	104	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/12	1	111	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/12	1	112	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/12	1	119	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/12	1	120	8.125	2.8	0.46	.	.	.	.	.	.	.	.
6/12	3	127	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/12	3	128	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/12	3	135	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/12	3	136	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/12	3	143	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/12	3	144	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	151	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	152	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	1	159	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/13	1	160	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/13	1	167	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/13	1	168	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	3	175	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	3	176	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/13	3	183	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/13	3	184	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/13	3	191	6.000	2.8	0.46	.	.	.	.	.	.	.	.
6/13	3	192	6.000	2.6	0.44	.	.	.	.	.	.	.	.
6/14	1	199	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/14	1	200	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	207	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	208	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/14	1	215	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/14	1	216	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/14	3	223	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/14	3	224	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/14	3	231	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/14	3	232	6.000	2.6	0.44	1	1	.	.	.	.	.	.
6/14	3	239	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/14	3	240	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	1	247	8.125	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 49 of 63)

Range 4													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/15	1	248	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	1	255	5.125	2.5	0.41	1	1	.	.	.	.	.	.
6/15	1	256	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/15	1	263	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/15	1	264	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/15	3	271	6.000	2.5	0.42	2	2	.	.	.	.	.	.
6/15	3	272	6.000	2.5	0.41	2	1	.	1	.	.	.	.
6/15	3	279	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/15	3	280	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/15	3	287	5.125	2.5	0.42	2	2	.	.	.	.	.	.
6/15	3	288	5.125	2.7	0.45	3	2	.	1	.	.	.	.
6/16	1	295	5.125	2.5	0.42	2	2	.	.	.	.	.	.
6/16	1	296	5.125	2.7	0.45	.	.	.	.	.	.	.	.
6/16	1	303	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/16	1	304	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/16	1	311	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/16	1	312	8.125	2.8	0.47	.	.	.	.	.	.	.	.
6/16	3	319	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	320	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	327	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	328	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	335	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/16	3	336	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	343	6.000	2.4	0.40	.	.	.	.	.	.	.	.
6/17	1	344	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	351	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	352	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	359	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/17	1	360	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/17	3	367	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/17	3	368	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/17	3	375	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/17	3	376	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/17	3	383	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/17	3	384	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	391	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	392	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/18	1	399	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/18	1	400	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/18	1	407	5.125	2.6	0.44	.	.	.	.	.	.	.	.
6/18	1	408	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/18	3	415	5.125	2.6	0.43	1	.	1	.	.	.	.	.
6/18	3	416	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	423	6.000	2.5	0.42	4	1	.	3	.	.	.	.
6/18	3	424	6.000	2.6	0.43	1	1	.	.	.	.	.	.
6/18	3	431	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/18	3	432	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	439	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	440	8.125	2.8	0.47	.	.	.	.	.	.	.	.
6/19	1	447	5.125	2.5	0.42	1	.	1	.	.	.	.	.
6/19	1	448	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	455	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	1	456	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	463	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	464	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/19	2	471	8.125	2.8	0.47	.	.	.	.	.	.	.	.
6/19	2	472	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/19	2	479	5.125	2.5	0.42	3	3	.	.	.	.	.	.
6/19	2	480	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	3	487	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/19	3	488	5.125	2.6	0.43	1	1	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 50 of 63)

Range 4

Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/19	3	495	8.125	2.7	0.46	.	.	.	.	.	.	.	.
6/19	3	496	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/19	3	503	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/19	3	504	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/20	1	511	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	512	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	519	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	520	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	1	527	5.125	2.5	0.41	1	1	.	.	.	.	.	.
6/20	1	528	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	535	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/20	2	536	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/20	2	543	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	544	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	551	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	2	552	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	3	559	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	3	560	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/20	3	567	5.125	2.6	0.43	1	1	.	.	.	.	.	.
6/20	3	568	5.125	2.5	0.42	1	.	1	.	.	.	.	.
6/20	3	575	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/20	3	576	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	583	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	584	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/21	1	591	5.125	2.6	0.43	.	.	.	.	.	.	.	.
6/21	1	592	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	599	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	1	600	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	607	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	608	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	615	6.000	2.5	0.42	1	.	.	1	.	.	.	.
6/21	2	616	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	623	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	2	624	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	631	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	632	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	639	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	640	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/21	3	647	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/21	3	648	8.125	2.6	0.43	.	.	.	.	.	.	.	.
6/22	1	655	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/22	1	656	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	1	663	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/22	1	664	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	1	671	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/22	1	672	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/22	2	679	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	680	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	687	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	688	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	695	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	2	696	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	3	703	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/22	3	704	5.125	2.5	0.41	1	1	.	.	.	.	.	.
6/22	3	711	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/22	3	712	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/22	3	719	6.000	2.6	0.43	.	.	.	.	.	.	.	.
6/22	3	720	6.000	2.5	0.42	1	.	.	1	.	.	.	.
6/23	1	727	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/23	1	728	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/23	1	735	5.125	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 51 of 63)

Range 4

Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/23	1	736	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	1	743	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	1	744	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	751	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	752	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	759	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	760	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/23	2	767	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/23	2	768	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	3	775	5.125	2.5	0.41	1	1	.	.	.	.	.	.
6/23	3	776	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/23	3	783	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/23	3	784	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/23	3	791	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/23	3	792	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	799	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	800	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	807	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	808	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	815	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	1	816	8.125	2.5	0.42	1	.	.	1	.	.	.	.
6/24	2	823	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	824	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	831	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	832	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/24	2	839	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	2	840	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	847	5.125	2.5	0.42	3	.	.	3	.	.	.	.
6/24	3	848	5.125	2.5	0.42	4	.	1	3	.	.	.	.
6/24	3	855	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	856	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	863	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/24	3	864	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	871	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/25	1	872	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	879	5.125	2.5	0.42	2	1	.	1	.	.	.	.
6/25	1	880	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	887	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	1	888	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	2	895	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	2	896	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	2	903	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/25	2	904	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	2	911	6.000	2.5	0.41	1	.	1	.	.	.	.	.
6/25	2	912	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/25	3	919	6.000	2.5	0.42	4	.	.	4	.	.	.	.
6/25	3	920	6.000	2.5	0.42	2	.	.	2	.	.	.	.
6/25	3	927	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/25	3	928	8.125	2.5	0.42	2	.	1	1	.	.	.	.
6/25	3	935	5.125	2.5	0.42	5	3	.	2	.	.	.	.
6/25	3	936	5.125	2.5	0.42	2	.	.	2	.	.	.	.
6/26	1	943	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/26	1	944	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/26	1	951	6.000	2.5	0.42	7	2	3	2	.	.	.	.
6/26	1	952	6.000	2.5	0.42	2	1	.	1	.	.	.	.
6/26	1	959	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/26	1	960	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/26	2	965	8.125	2.5	0.42
6/26	2	966	8.125	2.5	0.42
6/26	2	971	5.125	2.5	0.42
6/26	2	972	5.125	2.5	0.42	5	.	1	4

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Appendix D.1. (p 52 of 63)

Range 4

Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/26	2	977	6.000	2.7	0.44	5	1	2	2	.	.	.	.
6/26	2	978	6.000	2.5	0.42	3	.	2	1	.	.	.	.
6/26	3	981	6.000	2.5	0.42	7	1	1	5	.	.	.	.
6/26	3	982	6.000	2.5	0.42	2	.	1	1	.	.	.	.
6/26	3	985	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/26	3	986	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/26	3	989	5.125	2.5	0.42	4	.	1	3	.	.	.	.
6/26	3	990	5.125	2.5	0.41	2	.	2	.	.	.	.	.
6/27	1	993	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/27	1	994	5.125	2.5	0.42	1	.	.	1	.	.	.	.
6/27	1	1,001	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/27	1	1,002	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/27	1	1,008	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/27	2	1,013	8.125	2.5	0.42	1	.	1	.	.	.	.	.
6/27	2	1,014	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/27	2	1,019	5.125	2.4	0.40	2	1	1	.	.	.	.	.
6/27	2	1,020	5.125	2.5	0.42	3	1	.	2	.	.	.	.
6/27	2	1,025	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/27	2	1,026	6.000	2.5	0.42	2	1	1	.	.	.	.	.
6/27	3	1,029	6.000	2.5	0.42	5	.	5	.	.	.	.	.
6/27	3	1,030	6.000	2.5	0.42	5	.	4	1	.	.	.	.
6/27	3	1,033	5.125	2.5	0.42	6	.	6	.	.	.	.	.
6/27	3	1,034	5.125	2.5	0.42	3	3	.	.	.	.	.	.
6/27	3	1,037	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/27	3	1,038	8.125	2.5	0.42	1	.	.	1	.	.	.	.
6/28	1	1,045	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,046	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,053	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/28	1	1,054	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/28	1	1,061	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/28	1	1,062	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	2	1,069	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	2	1,070	5.125	2.5	0.41	.	.	.	.	.	.	.	.
6/28	2	1,077	6.000	2.5	0.42	2	1	1	.	.	.	.	.
6/28	2	1,078	6.000	2.5	0.41	.	.	.	.	.	.	.	.
6/28	2	1,085	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	2	1,086	8.125	2.5	0.42	1	1	.	.	.	.	.	.
6/28	3	1,093	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	3	1,094	8.125	2.4	0.40	.	.	.	.	.	.	.	.
6/28	3	1,101	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/28	3	1,102	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/28	3	1,109	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/28	3	1,110	5.125	2.5	0.42	1	.	1	.	.	.	.	.
6/29	1	1,117	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,118	5.125	2.5	0.42	2	1	.	1	.	.	.	.
6/29	1	1,125	6.000	2.5	0.42	1	1	.	.	.	.	.	.
6/29	1	1,126	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/29	1	1,133	8.125	2.5	0.42	2	2	.	.	.	.	.	.
6/29	1	1,134	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,141	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,142	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/29	2	1,149	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,150	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/29	2	1,157	6.000	2.5	0.42	1	.	.	1	.	.	.	.
6/29	2	1,158	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/29	3	1,165	6.000	2.5	0.42	1	.	1	.	.	.	.	.
6/29	3	1,166	6.000	2.5	0.41	3	.	1	2	.	.	.	.
6/29	3	1,173	5.125	2.5	0.42	5	1	.	4
6/29	3	1,174	5.125	2.5	0.41	3	.	2	1
6/29	3	1,181	8.125	2.5	0.42
6/29	3	1,182	8.125	2.5	0.42	1	1

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Appendix D.1. (p 53 of 63)

Range 4													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
6/30	1	1,189	8.125	2.5	0.41	.	.	.	.	.	.	.	.
6/30	1	1,190	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	1	1,197	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	1	1,198	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	1	1,205	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/30	1	1,206	6.000	2.5	0.41	1	1	.	.	.	.	.	.
6/30	2	1,213	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/30	2	1,214	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/30	2	1,221	8.125	2.5	0.42	3	2	1	.	.	.	.	.
6/30	2	1,222	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	2	1,229	5.125	2.5	0.42	1	1	.	.	.	.	.	.
6/30	2	1,230	5.125	2.6	0.43	3	.	2	1	.	.	.	.
6/30	3	1,237	5.125	2.5	0.42	1	.	1	.	.	.	.	.
6/30	3	1,238	5.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	3	1,245	6.000	2.5	0.42	.	.	.	.	.	.	.	.
6/30	3	1,246	6.000	2.5	0.42	2	.	1	1	.	.	.	.
6/30	3	1,253	8.125	2.5	0.42	.	.	.	.	.	.	.	.
6/30	3	1,254	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	1	1,261	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/01	1	1,262	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	1	1,269	6.000	2.5	0.42	2	.	.	2	.	.	.	.
7/01	1	1,270	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/01	1	1,277	5.125	2.5	0.41	1	.	1	.	.	.	.	.
7/01	1	1,278	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	2	1,285	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	2	1,286	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	2	1,293	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/01	2	1,294	6.000	2.5	0.41	4	.	1	3	.	.	.	.
7/01	2	1,301	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/01	2	1,302	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,309	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,310	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/01	3	1,317	6.000	2.5	0.42	3	.	1	2	.	.	.	.
7/01	3	1,318	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/01	3	1,325	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/01	3	1,326	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	1	1,333	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	1	1,334	5.125	2.5	0.41	3	1	1	1	.	.	.	.
7/02	1	1,341	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	1	1,342	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	1	1,349	6.000	2.5	0.41	2	1	.	1	.	.	.	.
7/02	1	1,350	6.000	2.6	0.43	3	1	.	2	.	.	.	.
7/02	2	1,357	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/02	2	1,358	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/02	2	1,365	5.125	2.5	0.42	2	.	.	2	.	.	.	.
7/02	2	1,366	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/02	2	1,373	8.125	2.5	0.41	1	.	1	.	.	.	.	.
7/02	2	1,374	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/02	3	1,381	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/02	3	1,382	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/02	3	1,389	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/02	3	1,390	6.000	2.6	0.43	1	.	1	.	.	.	.	.
7/02	3	1,397	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/02	3	1,398	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	1	1,405	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	1	1,406	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/03	1	1,413	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/03	1	1,414	6.000	2.5	0.42	1	.	1
7/03	1	1,421	8.125	2.5	0.42
7/03	1	1,422	8.125	2.5	0.42
7/03	2	1,429	8.125	2.5	0.42

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Appendix D.1. (p 54 of 63)

Range 4													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/03	2	1,430	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	2	1,437	6.000	2.5	0.42	2	.	.	2	.	.	.	.
7/03	2	1,438	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/03	2	1,445	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/03	2	1,446	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	3	1,453	5.125	2.5	0.42	2	1	1	.	.	.	.	.
7/03	3	1,454	5.125	2.5	0.42	2	.	1	1	.	.	.	.
7/03	3	1,461	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/03	3	1,462	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/03	3	1,469	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/03	3	1,470	6.000	2.5	0.41	1	.	.	1	.	.	.	.
7/04	1	1,477	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,478	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,485	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,486	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,493	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	1	1,494	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,501	8.125	2.5	0.42	1	.	.	1	.	.	.	.
7/04	2	1,502	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,509	6.000	2.5	0.41	4	.	1	3	.	.	.	.
7/04	2	1,510	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	2	1,517	5.125	2.5	0.41	4	.	1	3	.	.	.	.
7/04	2	1,518	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/04	3	1,525	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/04	3	1,526	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/04	3	1,533	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/04	3	1,534	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/04	3	1,541	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/04	3	1,542	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,549	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,550	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,557	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,558	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,565	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	1	1,566	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,573	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,574	5.125	2.5	0.42	2	.	2	.	.	.	.	.
7/05	2	1,581	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,582	6.000	2.5	0.42	2	.	2	.	.	.	.	.
7/05	2	1,589	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	2	1,590	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/05	3	1,597	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,598	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/05	3	1,605	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,606	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/05	3	1,613	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/05	3	1,614	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/06	1	1,621	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/06	1	1,622	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/06	1	1,629	8.125	2.7	0.45	.	.	.	.	.	.	.	.
7/06	1	1,630	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	1	1,637	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	1	1,638	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	2	1,645	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/06	2	1,646	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/06	2	1,653	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/06	2	1,654	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/06	2	1,661	8.125	2.5	0.42
7/06	2	1,662	8.125	2.5	0.42
7/06	3	1,669	8.125	2.5	0.42
7/06	3	1,670	8.125	2.5	0.42	1	.	1

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Appendix D.1. (p 55 of 63)

Range 4

Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/06	3	1,677	5.125	2.5	0.42	2	.	2	.	.	.	.	.
7/06	3	1,678	5.125	2.5	0.42	2	1	1	.	.	.	.	.
7/06	3	1,685	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/06	3	1,686	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/07	1	1,693	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/07	1	1,694	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/07	1	1,701	5.125	2.5	0.42	2	.	2	.	.	.	.	.
7/07	1	1,702	5.125	2.5	0.42	2	.	1	1	.	.	.	.
7/07	1	1,709	8.125	2.5	0.42	3	2	.	1	.	.	.	.
7/07	1	1,710	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/07	2	1,717	8.125	2.5	0.42	1	.	1	.	.	.	.	.
7/07	2	1,718	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/07	2	1,723	5.125	2.5	0.42	3	1	.	2	.	.	.	.
7/07	2	1,724	5.125	2.5	0.42	3	.	1	2	.	.	.	.
7/07	2	1,729	6.000	2.5	0.42	3	3	.	.	.	.	.	.
7/07	2	1,730	6.000	2.5	0.42	2	.	.	2	.	.	.	.
7/07	3	1,735	6.000	2.5	0.42	2	2	.	.	.	.	.	.
7/07	3	1,736	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/07	3	1,741	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/07	3	1,742	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/07	3	1,747	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/07	3	1,748	8.125	2.6	0.43	2	2	.	.	.	.	.	.
7/08	1	1,753	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/08	1	1,754	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	1	1,759	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/08	1	1,760	6.000	2.5	0.41	3	1	1	1	.	.	.	.
7/08	1	1,765	5.125	2.5	0.42	4	1	1	2	.	.	.	.
7/08	1	1,766	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/08	2	1,771	5.125	2.5	0.42	2	.	1	1	.	.	.	.
7/08	2	1,772	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/08	2	1,777	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/08	2	1,778	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/08	2	1,783	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/08	2	1,784	8.125	2.5	0.42	1	.	1	.	.	.	.	.
7/08	3	1,789	8.125	2.5	0.42	1	1	.	.	.	.	.	.
7/08	3	1,790	8.125	2.5	0.42	2	.	2	.	.	.	.	.
7/08	3	1,795	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/08	3	1,796	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/08	3	1,801	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/08	3	1,802	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/09	1	1,809	5.125	2.5	0.42	3	.	3	.	.	.	.	.
7/09	1	1,810	5.125	2.5	0.41	3	.	1	2	.	.	.	.
7/09	1	1,817	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/09	1	1,818	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/09	1	1,825	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/09	1	1,826	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	2	1,831	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	2	1,832	8.125	2.5	0.41	1	.	1	.	.	.	.	.
7/09	2	1,837	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/09	2	1,838	6.000	2.5	0.41	1	.	1	.	.	.	.	.
7/09	2	1,843	5.125	2.5	0.41	5	.	4	1	.	.	.	.
7/09	2	1,844	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	3	1,849	5.125	2.5	0.42	3	1	1	1	.	.	.	.
7/09	3	1,850	5.125	2.5	0.42	4	.	4	.	.	.	.	.
7/09	3	1,855	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	3	1,856	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/09	3	1,861	6.000	2.5	0.41	1	.	.	1	.	.	.	.
7/09	3	1,862	6.000	2.5	0.41
7/10	1	1,869	6.000	2.5	0.42
7/10	1	1,870	6.000	2.5	0.42
7/10	1	1,877	5.125	2.5	0.42

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Appendix D.1. (p 56 of 63)

Range 4													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/10	1	1,878	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/10	1	1,885	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/10	1	1,886	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	2	1,893	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	2	1,894	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	2	1,901	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	2	1,902	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/10	2	1,909	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/10	2	1,910	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/10	3	1,917	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/10	3	1,918	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/10	3	1,925	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/10	3	1,926	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	3	1,933	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/10	3	1,934	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	1	1,941	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	1	1,942	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	1	1,949	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/11	1	1,950	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/11	1	1,957	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/11	1	1,958	6.000	2.6	0.44	.	.	.	.	.	.	.	.
7/11	2	1,965	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,966	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,973	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,974	5.125	2.5	0.42	2	.	1	1	.	.	.	.
7/11	2	1,981	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	2	1,982	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	3	1,989	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	3	1,990	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/11	3	1,997	5.125	2.5	0.42	1	.	1	.	.	.	.	.
7/11	3	1,998	5.125	2.5	0.42	4	.	1	3	.	.	.	.
7/11	3	2,005	6.000	2.5	0.42	2	1	.	1	.	.	.	.
7/11	3	2,006	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,013	6.000	2.5	0.42	1	.	1	.	.	.	.	.
7/12	1	2,014	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,021	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,022	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	1	2,029	5.125	2.5	0.42	1	.	.	.	.	.	.	1
7/12	1	2,030	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,037	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/12	2	2,038	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,045	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,046	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,053	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	2	2,054	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,061	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,062	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,069	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,070	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/12	3	2,077	6.000	2.5	0.42	2	.	.	2	.	.	.	.
7/12	3	2,078	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	1	2,085	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	1	2,086	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	1	2,093	5.125	2.5	0.41	4	.	4	.	.	.	.	.
7/13	1	2,094	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	1	2,101	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/13	1	2,102	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,109	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/13	2	2,110	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,117	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,118	5.125	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 57 of 63)

Range 4													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/13	2	2,125	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	2	2,126	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,133	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,134	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,141	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,142	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/13	3	2,149	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/13	3	2,150	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,157	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,158	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,165	5.125	2.5	0.42	3	.	.	2	.	.	.	1
7/14	1	2,166	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,173	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/14	1	2,174	6.000	2.5	0.42	1	.	.	1	.	.	.	.
7/14	2	2,181	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/14	2	2,182	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/14	2	2,189	5.125	2.5	0.41	1	.	1	.	.	.	.	.
7/14	2	2,190	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	2	2,197	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	2	2,198	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,205	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/14	3	2,206	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,213	6.000	2.5	0.42	1	1	.	.	.	.	.	.
7/14	3	2,214	6.000	2.5	0.42	2	.	2	.	.	.	.	.
7/14	3	2,221	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/14	3	2,222	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,229	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,230	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,237	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,238	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,245	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	1	2,246	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,253	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/15	3	2,254	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,261	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,262	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,269	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/15	3	2,270	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/16	1	2,277	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,278	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/16	1	2,285	5.125	2.5	0.42	1	.	.	1	.	.	.	.
7/16	1	2,286	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	1	2,293	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/16	1	2,294	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,301	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,302	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,309	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,310	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,317	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/16	2	2,318	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,325	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,326	5.125	2.5	0.41	5	.	5	.	.	.	.	.
7/17	1	2,333	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,334	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/17	1	2,341	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/17	1	2,342	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/17	2	2,349	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/17	2	2,350	6.000	2.5	0.42
7/17	2	2,357	5.125	2.5	0.42
7/17	2	2,358	5.125	2.5	0.42
7/17	2	2,365	8.125	2.5	0.42

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Appendix D.1. (p 58 of 63)

Range 4													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/17	2	2,366	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,373	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/18	1	2,374	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,381	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,382	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/18	1	2,389	5.125	2.5	0.42	3	.	3	.	.	.	.	.
7/18	1	2,390	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,397	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,398	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,405	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,406	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/18	3	2,413	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/18	3	2,414	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,421	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,422	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,429	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/19	1	2,430	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,437	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	1	2,438	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/19	3	2,445	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,446	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,453	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,454	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,461	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/19	3	2,462	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/20	1	2,469	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/20	1	2,470	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/20	1	2,477	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/20	1	2,478	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/20	1	2,485	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/20	1	2,486	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/20	3	2,493	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/20	3	2,494	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/20	3	2,501	8.125	2.6	0.43	.	.	.	.	.	.	.	.
7/20	3	2,502	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/20	3	2,509	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/20	3	2,510	5.125	2.6	0.43	2	.	2	.	.	.	.	.
7/21	1	2,517	5.125	2.8	0.47	.	.	.	.	.	.	.	.
7/21	1	2,518	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	1	2,525	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/21	1	2,526	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/21	1	2,533	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	1	2,534	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,541	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,542	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,549	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,550	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,557	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/21	3	2,558	5.125	2.6	0.43	.	.	.	.	.	.	.	.
7/22	1	2,565	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	1	2,566	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/22	1	2,573	8.125	2.5	0.42	.	.	.	.	.	.	.	.
7/22	1	2,574	8.125	2.5	0.41	.	.	.	.	.	.	.	.
7/22	1	2,581	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/22	1	2,582	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/22	3	2,589	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/22	3	2,590	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/22	3	2,597	5.125	2.5	0.41
7/22	3	2,598	5.125	2.5	0.42
7/22	3	2,605	8.125	2.5	0.42
7/22	3	2,606	8.125	2.5	0.42

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Appendix D.1. (p 59 of 63)

Range 4												
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
7/23	1	2,613	8.125	2.5	0.42	.	.	.	.	.	.	.
7/23	1	2,614	8.125	2.5	0.42	.	.	.	.	.	.	.
7/23	1	2,621	5.125	2.6	0.43	.	.	.	.	.	.	.
7/23	1	2,622	5.125	2.5	0.42	.	.	.	.	.	.	.
7/23	1	2,629	6.000	2.5	0.42	.	.	.	.	.	.	.
7/23	1	2,630	6.000	2.6	0.43	.	.	.	.	.	.	.
7/23	3	2,637	6.000	2.5	0.42	.	.	.	.	.	.	.
7/23	3	2,638	6.000	2.5	0.41	.	.	.	.	.	.	.
7/23	3	2,645	8.125	2.6	0.43	.	.	.	.	.	.	.
7/23	3	2,646	8.125	2.5	0.42	.	.	.	.	.	.	.
7/23	3	2,653	5.125	2.6	0.43	.	.	.	.	.	.	.
7/23	3	2,654	5.125	2.5	0.42	.	.	.	.	.	.	.
7/24	1	2,661	5.125	2.5	0.42	.	.	.	.	.	.	.
7/24	1	2,662	5.125	2.5	0.42	.	.	.	.	.	.	.
7/24	1	2,669	6.000	2.5	0.42	.	.	.	.	.	.	.
7/24	1	2,670	6.000	2.5	0.42	.	.	.	.	.	.	.
7/24	1	2,677	8.125	2.8	0.47	.	.	.	.	.	.	.
7/24	1	2,678	8.125	2.6	0.44	.	.	.	.	.	.	.
7/24	3	2,685	8.125	2.5	0.42	.	.	.	.	.	.	.
7/24	3	2,686	8.125	2.5	0.42	.	.	.	.	.	.	.
7/24	3	2,693	5.125	2.5	0.42	.	.	.	.	.	.	.
7/24	3	2,694	5.125	2.5	0.42	.	.	.	.	.	.	.
7/24	3	2,701	6.000	2.5	0.42	.	.	.	.	.	.	.
7/24	3	2,702	6.000	2.5	0.42	.	.	.	.	.	.	.
7/25	1	2,709	6.000	2.5	0.42	.	.	.	.	.	.	.
7/25	1	2,710	6.000	2.5	0.42	.	.	.	.	.	.	.
7/25	1	2,717	5.125	2.5	0.42	.	.	.	.	.	.	.
7/25	1	2,718	5.125	2.5	0.41	1	.	.	.	.	1	.
7/25	1	2,725	8.125	2.5	0.42	.	.	.	.	.	.	.
7/25	1	2,726	8.125	2.5	0.41	.	.	.	.	.	.	.
7/25	3	2,733	8.125	2.5	0.42	.	.	.	.	.	.	.
7/25	3	2,734	8.125	2.5	0.42	.	.	.	.	.	.	.
7/25	3	2,741	8.125	2.5	0.42	1	1	.	.	.	.	.
7/25	3	2,742	8.125	2.5	0.42	.	.	.	.	.	.	.
7/25	3	2,749	5.125	2.5	0.42	4	.	.	.	.	4	.
7/25	3	2,750	5.125	2.5	0.42	1	1	.	.	.	.	.
7/26	1	2,760	5.125	2.5	0.42	1	.	.	.	.	1	.
7/26	1	2,761	5.125	2.6	0.43	.	.	.	.	.	.	.
7/26	1	2,762	5.125	2.5	0.42	.	.	.	.	.	.	.
7/26	1	2,772	6.000	2.5	0.42	.	.	.	.	.	.	.
7/26	1	2,773	6.000	2.6	0.44	.	.	.	.	.	.	.
7/26	1	2,774	6.000	2.5	0.42	.	.	.	.	.	.	.
7/26	3	2,784	6.000	2.5	0.41	.	.	.	.	.	.	.
7/26	3	2,785	6.000	2.6	0.44	.	.	.	.	.	.	.
7/26	3	2,786	6.000	2.5	0.41	.	.	.	.	.	.	.
7/26	3	2,796	5.125	2.5	0.42	.	.	.	.	.	.	.
7/26	3	2,797	5.125	2.5	0.42	.	.	.	.	.	.	.
7/26	3	2,798	5.125	2.5	0.42	.	.	.	.	.	.	.
7/27	1	2,808	5.125	2.5	0.42	.	.	.	.	.	.	.
7/27	1	2,809	5.125	2.5	0.42	.	.	.	.	.	.	.
7/27	1	2,810	5.125	2.5	0.42	2	.	.	.	.	2	.
7/27	1	2,820	6.000	2.6	0.43	1	.	.	.	.	1	.
7/27	1	2,821	6.000	2.6	0.43	.	.	.	.	.	.	.
7/27	1	2,822	6.000	2.5	0.42	.	.	.	.	.	.	.
7/27	3	2,832	6.000	2.5	0.42	.	.	.	.	.	.	.
7/27	3	2,833	6.000	2.5	0.42	.	.	.	.	.	.	.
7/27	3	2,834	6.000	2.5	0.42	.	.	.	.	.	.	.
7/27	3	2,844	5.125	2.5	0.41
7/27	3	2,845	5.125	2.5	0.41
7/27	3	2,846	5.125	2.6	0.43
7/28	1	2,856	5.125	2.5	0.42

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Appendix D.1. (p 60 of 63)

Range 4													
Date	Session*	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
7/28	1	2,857	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,858	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,868	6.000	2.4	0.40	.	.	.	.	.	.	.	.
7/28	1	2,869	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	1	2,870	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,880	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,881	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,882	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,892	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,893	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/28	3	2,894	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/29	1	2,904	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,905	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/29	1	2,906	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,916	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	1	2,917	6.000	2.6	0.43	.	.	.	.	.	.	.	.
7/29	1	2,918	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,928	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/29	3	2,929	6.000	2.7	0.44	2	.	2	.	.	.	.	.
7/29	3	2,930	6.000	2.7	0.44	.	.	.	.	.	.	.	.
7/29	3	2,940	5.125	2.5	0.41	3	.	.	.	.	3	.	.
7/29	3	2,941	5.125	2.5	0.42	1	1	.	.	.	.	.	.
7/29	3	2,942	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,952	5.125	2.4	0.41	.	.	.	.	.	.	.	.
7/30	1	2,953	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,954	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,964	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/30	1	2,965	6.000	2.5	0.42	1	.	.	.	.	1	.	.
7/30	1	2,966	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,976	6.000	2.5	0.42	4	.	.	.	.	4	.	.
7/30	3	2,977	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,978	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,988	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,989	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/30	3	2,990	5.125	2.4	0.41	.	.	.	.	.	.	.	.
7/31	1	3,000	5.125	2.6	0.44	.	.	.	.	.	.	.	.
7/31	1	3,001	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	3,002	5.125	2.5	0.41	.	.	.	.	.	.	.	.
7/31	1	3,012	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	3,013	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	1	3,014	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,024	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,025	6.000	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,026	6.000	2.5	0.41	.	.	.	.	.	.	.	.
7/31	3	3,036	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,037	5.125	2.5	0.42	.	.	.	.	.	.	.	.
7/31	3	3,038	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,048	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/01	1	3,049	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,050	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/01	1	3,060	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	1	3,061	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/01	1	3,062	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/01	3	3,072	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,073	6.000	2.5	0.42	2	.	.	1	.	1	.	.
8/01	3	3,074	6.000	2.6	0.43	2	1	.	.	.	1	.	.
8/01	3	3,084	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/01	3	3,085	5.125	2.5	0.42
8/01	3	3,086	5.125	2.5	0.42	2	.	1	.	.	1	.	.
8/02	1	3,096	5.125	2.5	0.42	6	.	1	.	.	5	.	.
8/02	1	3,097	5.125	2.5	0.42

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Appendix D.1. (p 61 of 63)

Range 4													
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
8/02	1	3,098	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	1	3,108	6.000	2.4	0.41	.	.	.	.	.	.	.	.
8/02	1	3,109	6.000	2.5	0.42	1	.	.	1	.	.	.	.
8/02	1	3,110	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,120	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,121	6.000	2.7	0.44	.	.	.	.	.	.	.	.
8/02	3	3,122	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,132	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/02	3	3,133	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,144	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,145	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,146	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/03	1	3,156	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	1	3,157	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/03	1	3,158	6.000	2.5	0.42	2	.	.	.	.	2	.	.
8/03	3	3,168	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/03	3	3,169	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,170	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/03	3	3,180	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/03	3	3,181	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/03	3	3,182	5.125	2.6	0.43	2	.	.	.	.	2	.	.
8/04	1	3,192	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,193	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/04	1	3,194	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/04	1	3,204	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,205	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	1	3,206	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,216	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,217	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/04	3	3,218	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,228	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,229	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/04	3	3,230	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,239	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/05	1	3,240	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/05	1	3,241	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,242	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/05	1	3,252	6.000	2.5	0.41	1	.	.	.	.	1	.	.
8/05	1	3,253	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	1	3,254	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,264	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/05	3	3,265	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,266	6.000	2.8	0.47	3	.	.	.	.	3	.	.
8/05	3	3,276	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/05	3	3,277	5.125	2.5	0.42	5	1	.	.	.	4	.	.
8/05	3	3,278	5.125	2.6	0.43	5	.	.	.	.	5	.	.
8/06	1	3,285	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	1	3,286	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	1	3,293	6.000	2.5	0.42	3	.	1	.	.	2	.	.
8/06	1	3,294	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/06	3	3,301	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/06	3	3,302	6.000	2.5	0.42	3	.	.	.	.	3	.	.
8/06	3	3,309	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/06	3	3,310	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/07	1	3,317	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/07	1	3,318	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/07	1	3,325	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/07	1	3,326	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/07	3	3,333	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/07	3	3,334	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/07	3	3,341	5.125	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 62 of 63)

Range 4

Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species							
						Total	Chinook	Sockeye	Chum	Pink	Coho	White	Other ^b
8/07	3	3,342	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/08	1	3,349	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/08	1	3,350	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/08	1	3,357	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/08	1	3,358	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/08	3	3,365	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/08	3	3,366	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/08	3	3,373	5.125	2.5	0.41	5	.	.	.	.	5	.	.
8/08	3	3,374	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/10	1	3,413	5.125	2.5	0.42	4	.	.	.	.	4	.	.
8/10	1	3,414	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/10	1	3,421	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/10	1	3,422	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/10	3	3,429	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/10	3	3,430	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/10	3	3,437	5.125	2.5	0.42	3	.	.	.	.	3	.	.
8/10	3	3,438	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/11	1	3,445	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/11	1	3,446	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/11	1	3,453	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/11	1	3,454	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/11	3	3,461	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/11	3	3,462	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/11	3	3,469	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/11	3	3,470	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/12	1	3,477	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/12	1	3,478	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/12	1	3,485	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/12	1	3,486	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/12	3	3,493	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/12	3	3,494	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/12	3	3,501	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/12	3	3,502	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/13	1	3,509	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/13	1	3,510	5.125	2.6	0.43	.	.	.	.	.	.	.	.
8/13	1	3,517	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/13	1	3,518	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/13	3	3,525	6.000	2.5	0.42	2	.	.	.	.	2	.	.
8/13	3	3,526	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/13	3	3,533	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/13	3	3,534	5.125	2.5	0.42	2	.	.	.	.	2	.	.
8/14	1	3,541	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/14	1	3,542	5.125	2.5	0.41	.	.	.	.	.	.	.	.
8/14	1	3,549	6.000	2.5	0.41	1	.	.	.	.	1	.	.
8/14	1	3,550	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/14	3	3,557	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/14	3	3,558	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/14	3	3,565	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/14	3	3,566	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/15	1	3,573	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/15	1	3,574	5.125	2.5	0.42	1	.	.	.	.	1	.	.
8/15	1	3,581	6.000	2.6	0.43	.	.	.	.	.	.	.	.
8/15	1	3,582	6.000	2.5	0.41	.	.	.	.	.	.	.	.
8/15	3	3,589	6.000	2.5	0.42	1	.	.	.	.	1	.	.
8/15	3	3,590	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/15	3	3,597	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/15	3	3,598	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/16	1	3,605	5.125	2.5	0.42	.	.	.	.	.	.	.	.
8/16	1	3,606	5.125	2.6	0.44	.	.	.	.	.	.	.	.
8/16	1	3,613	6.000	2.5	0.42	.	.	.	.	.	.	.	.
8/16	1	3,614	6.000	2.5	0.42	.	.	.	.	.	.	.	.

-Continued-

Appendix D.1. (p 63 of 63)

Range 4												
Date	Session ^a	Drift Number	Mesh	Fishing Time (min)	Fathom Hours	Species						
						Total	Chinook	Sockeye	Chum	Pink	Coho	White Other ^b
8/16	3	3,621	6.000	2.5	0.42	.	.	.	.	.	.	.
8/16	3	3,622	6.000	2.5	0.42	.	.	.	.	.	.	.
8/16	3	3,629	5.125	2.5	0.42	.	.	.	.	.	.	.
8/16	3	3,630	5.125	2.5	0.42	.	.	.	.	.	.	.
8/17	1	3,637	5.125	2.5	0.42	.	.	.	.	.	.	.
8/17	1	3,638	5.125	2.5	0.41	.	.	.	.	.	.	.
8/17	1	3,645	6.000	2.6	0.43	.	.	.	.	.	.	.
8/17	1	3,646	6.000	2.5	0.42	.	.	.	.	.	.	.
8/17	3	3,653	6.000	2.5	0.42	.	.	.	.	.	.	.
8/17	3	3,654	6.000	2.5	0.42	.	.	.	.	.	.	.
8/17	3	3,661	5.125	2.5	0.42	.	.	.	.	.	.	.
8/17	3	3,662	5.125	2.5	0.41	.	.	.	.	.	.	.
8/18	1	3,669	5.125	2.5	0.42	.	.	.	.	.	.	.
8/18	1	3,670	5.125	2.5	0.42	.	.	.	.	.	.	.
8/18	1	3,677	6.000	2.5	0.42	.	.	.	.	.	.	.
8/18	1	3,678	6.000	2.5	0.42	.	.	.	.	.	.	.
8/18	3	3,685	6.000	2.6	0.43	.	.	.	.	.	.	.
8/18	3	3,686	6.000	2.5	0.42	.	.	.	.	.	.	.
8/18	3	3,693	5.125	2.5	0.42	.	.	.	.	.	.	.
8/18	3	3,694	5.125	2.5	0.42	.	.	.	.	.	.	.
8/19	1	3,701	5.125	2.5	0.42	.	.	.	.	.	.	.
8/19	1	3,702	5.125	2.5	0.42	.	.	.	.	.	.	.
8/19	1	3,709	6.000	2.6	0.44	.	.	.	.	.	.	.
8/19	1	3,710	6.000	2.5	0.42	.	.	.	.	.	.	.
8/19	3	3,717	6.000	2.6	0.43	1	.	.	.	.	1	.
8/19	3	3,718	6.000	2.5	0.42	.	.	.	.	.	.	.
8/19	3	3,725	5.125	2.5	0.41	.	.	.	.	.	.	.
8/19	3	3,726	5.125	2.5	0.42	.	.	.	.	.	.	.
Range 4 Total -				2,374	395.62	427	100	125	124	0	76	0 2
All Ranges Total -				9,287	1,547.78	2,041	450	736	580	0	262	2 11

a 1 = 0700-1100 hrs; 2 = 1300-1700 hrs; 3 = 1800-2200 hrs.

b "Other" includes Arctic Char and rainbow trout.

Appendix D.2. Beach seine catch by date and range, Nushagak River sonar project, 1995.

Date	Range	Number of Sets	Number Caught by Species					Total
			Chinook	Sockeye	Chum	Pink	Coho	
6/26	1	6	25	26	77	0	0	128
6/26	3	9	4	40	57	0	0	101
6/27	1	9	13	143	46	0	0	202
6/27	3	3	1	115	46	0	0	162
7/07	3	9	7	118	75	1	0	201
7/08	3	8	2	315	110	0	3	430
7/09	3	6	1	208	25	0	0	234
Total		50	53	965	436	1	3	1,458

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